

KV-2185MT / 2185MTJ RM-827S

SERVICE MANUAL

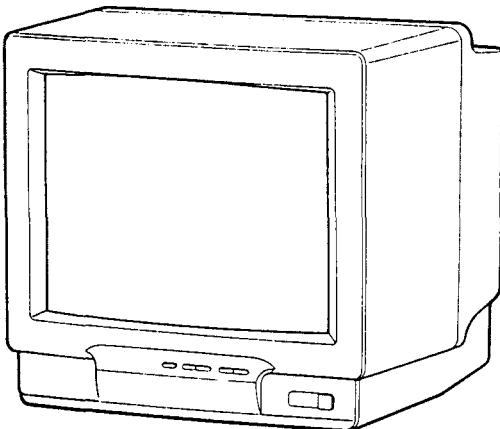
ME Model

KV-2185MT

Chassis No. SCC-F21B-A

KV-2185MTJ

Chassis No. SCC-F21A-A



G3E CHASSIS

MODELS OF THE SAME SERIES
KV-2185MTJ/1485MTJ/MTJ
KV-1487MT/1487MD

SPECIFICATIONS

Power requirements 110–240 V AC, 50/60 Hz
Power consumption Indicated on the rear of the TV
Color system PAL, PAL60, NTSC_{4.43}, NTSC_{3.58}, SECAM
Television system and Channel coverage

Television system	M	B/G	I	D/K
Low VHF band	A2–A6	E2–E4	—	R1–R5
High VHF band	A7–A13	E5–E12	—	R6–R12
UHF	A14–A79	E21–E69	B21–B68	R21–R60
CATV	—	S01–S03 S1–S20	—	—

Audio output 3 W
Inputs Antenna: 75 ohms
VIDEO INPUT jacks: phono jacks
Video: 1 Vp-p, 75 ohms
Audio: 500 mVrms, high impedance
Picture tube Approx. 54 cm (21 inches)
Dimensions Approx. 520 × 462.5 × 486 mm (w/h/d)
Weight Approx. 24 Kg

Design and specifications are subject to change without notice.

TRINITRON® COLOR TV
SONY®



MICROFILM

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE
AND THE ANODE CAP TO THE METAL CHASSIS, CRT
SHIELD, OR CARBON PAINTED ON THE CRT, AFTER
REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ
ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
SONY PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

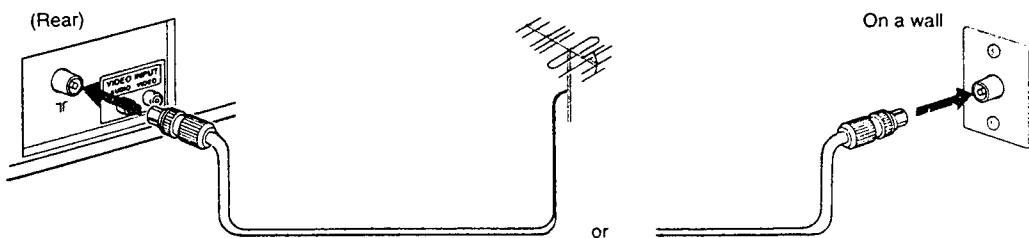
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

1-1. ANTENNA CONNECTION

To connect a VHF antenna or a combination VHF/UHF antenna— 75-ohm Coaxial Cable (Round)

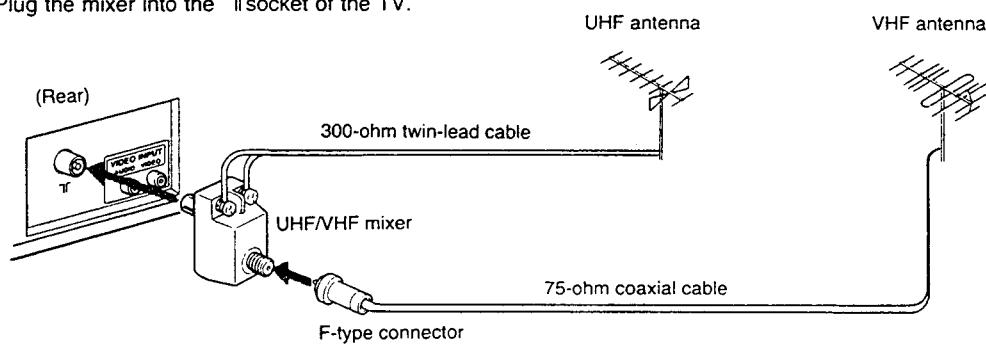
Plug the connector into the T socket of the TV.



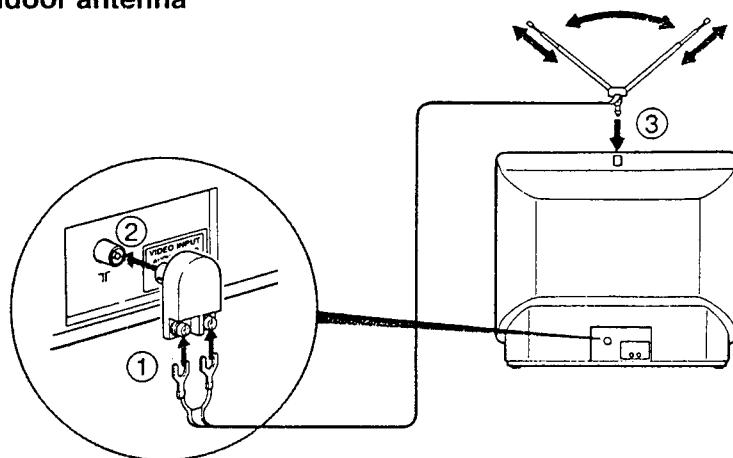
To connect both VHF and UHF antennas

1 Attach the antenna cable ends to the UHF/VHF mixer.

2 Plug the mixer into the T socket of the TV.

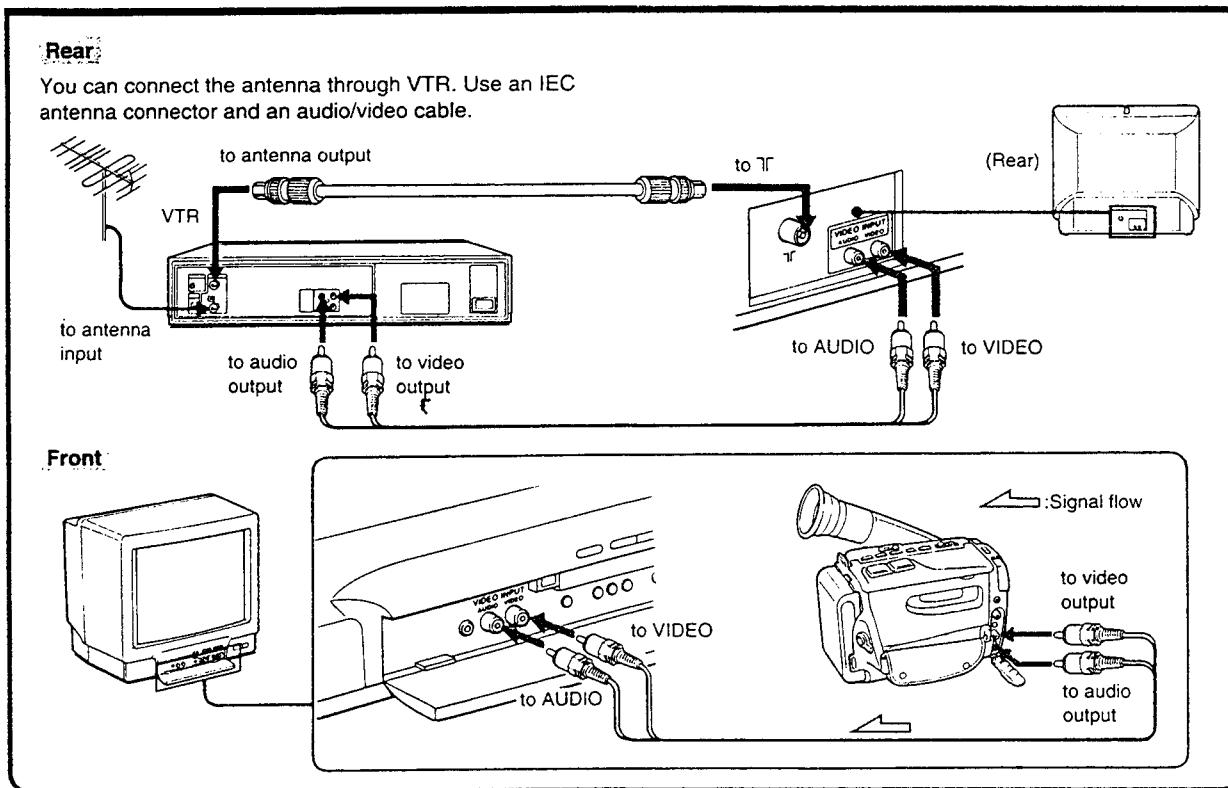


To connect the indoor antenna

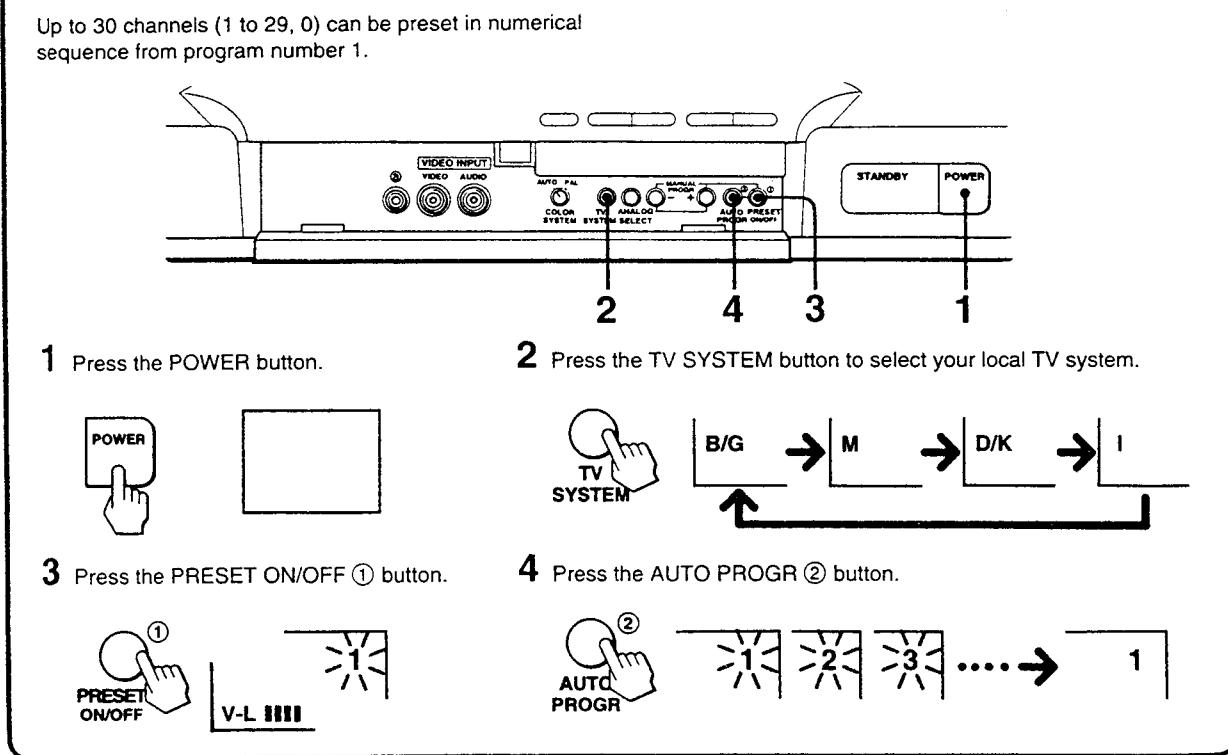


We recommend using an outdoor antenna for better reception.

1-2. CONNECTING VTR OR OTHER EQUIPMENT



1-3. PRESET THE CHANNELS AUTOMATICALLY



1-4. WATCHING THE TV

The diagram illustrates the use of a remote control for basic TV operations, divided into three main sections:

- To switch on or off the TV**: Shows the POWER button being pressed. A note states: "The power of the TV is turned on, or off completely."
- To select a channel**: Shows a numeric keypad for channel selection. It includes examples: "To select 8," with a finger on the "8" button; "To select 10," with fingers on "1" and "0"; and "To select 25," with fingers on "2" and "5". An alternative method is shown using the PROGR button with a dial and a finger.
- To set the TV to standby mode**: Shows the POWER button being pressed again. A note states: "To turn on the TV, press again."

A central note at the bottom right states: "You can operate on the TV using the buttons of the same name."

For personal listening, an earphone can be connected to the jack.

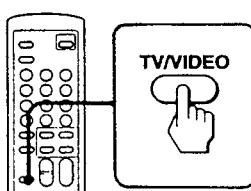
1-5. WATCHING THE VIDEO INPUT

1 Press the TV/VIDEO button.

2 Set the VTR to playback mode.

To return to TV mode

Press the TV/VIDEO button.



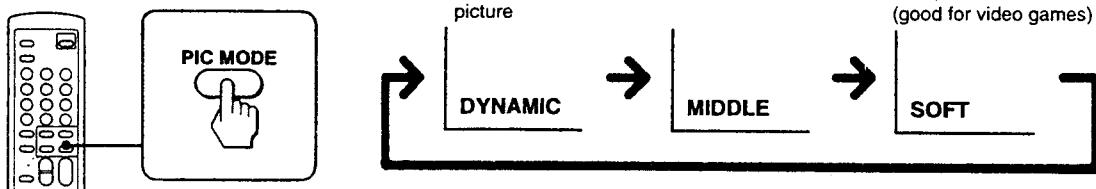
Note

Do not use the VTRs connected to the front and rear A/V connectors simultaneously. When you use a VTR, turn off or disconnect another VTR.

1-6. ADJUSTMENT

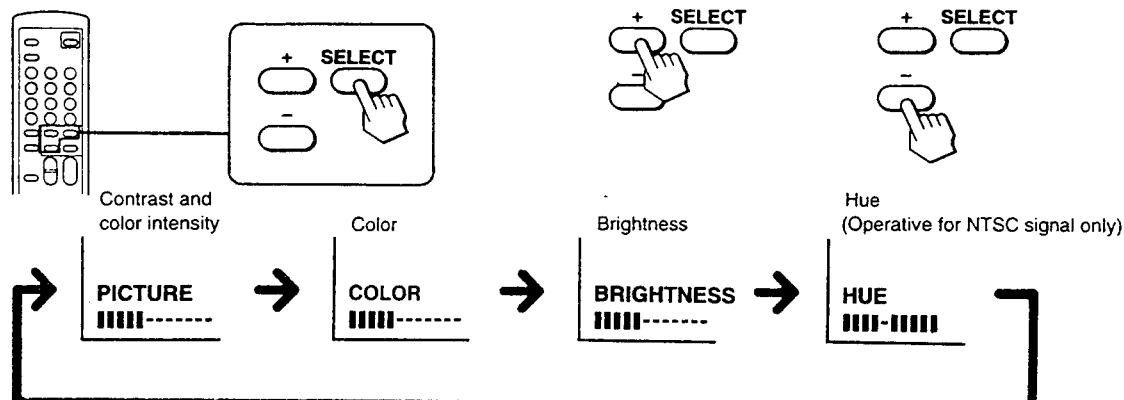
Selecting the Picture Mode

Press the PIC MODE button.



Adjusting the Picture to Your Preference

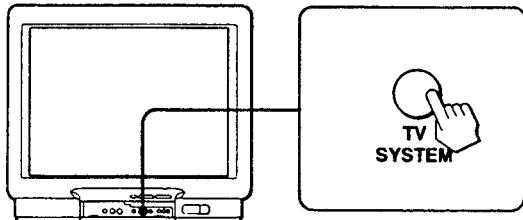
- 1 Select the adjustment item using the SELECT button on the Remote Commander (or ANALOG SELECT button on the TV).



Note

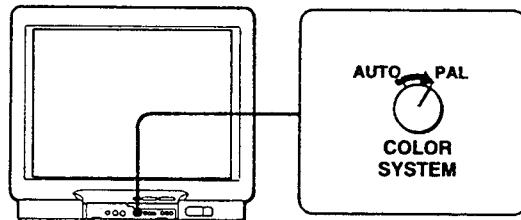
If you change the PIC MODE setting after the above adjustments, the adjustment changes in accordance with the PIC MODE setting.

To set TV SYSTEM



If the sound is distorted or noisy, or color is abnormal while receiving program through the VHF/UHF terminal, press TV SYSTEM until a clear sound or normal color is obtained. The TV system set by this operation is memorized for the program position.

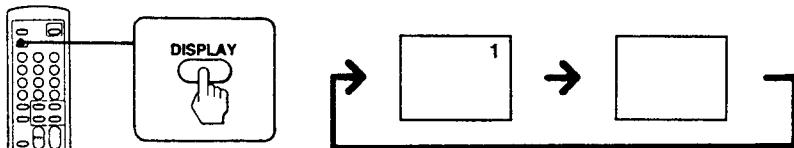
To set COLOR SYSTEM



Normally set COLOR SYSTEM to AUTO. If the color reproduction is abnormal (for example, the picture turns red or blue) while receiving PAL and PAL 60 playback signal, set to PAL. The picture color will become normal.

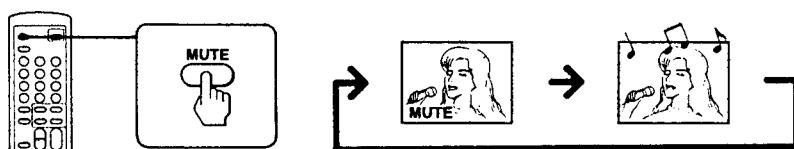
Turning On or OFF the On-screen Display

Press the DISPLAY button.



Muting

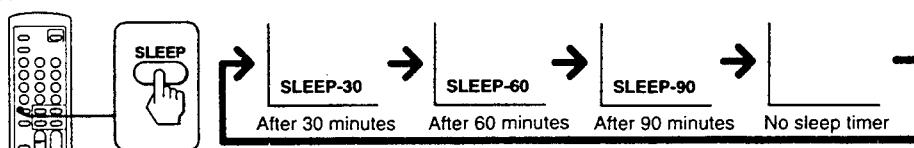
Press the MUTE button.



Setting the Sleep Timer

The TV will be turned off after about 30, 60, or 90 minutes.

Press the SLEEP button.



To cancel the sleep timer

Press the SLEEP button until the sleep indication disappears.

1-7. ADDITIONAL PRESETTING

Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.

Example: To preset a channel in program number 8

- 1 Press the PRESET ON/OFF button.
- 2 Press the PROGR +/- button until "8" appears.
- 3 Press the TV SYSTEM button to select your TV system.
- 4 Press the MANUAL PROGR +/- buttons until the channel you want appears.
- 5 Press the PRESET ON/OFF button.

To preset other channels, repeat steps 1 through 5.

Skipping Program Positions

You can skip the unused or undesired program position when you are selecting a program using the PROGR +/- buttons.

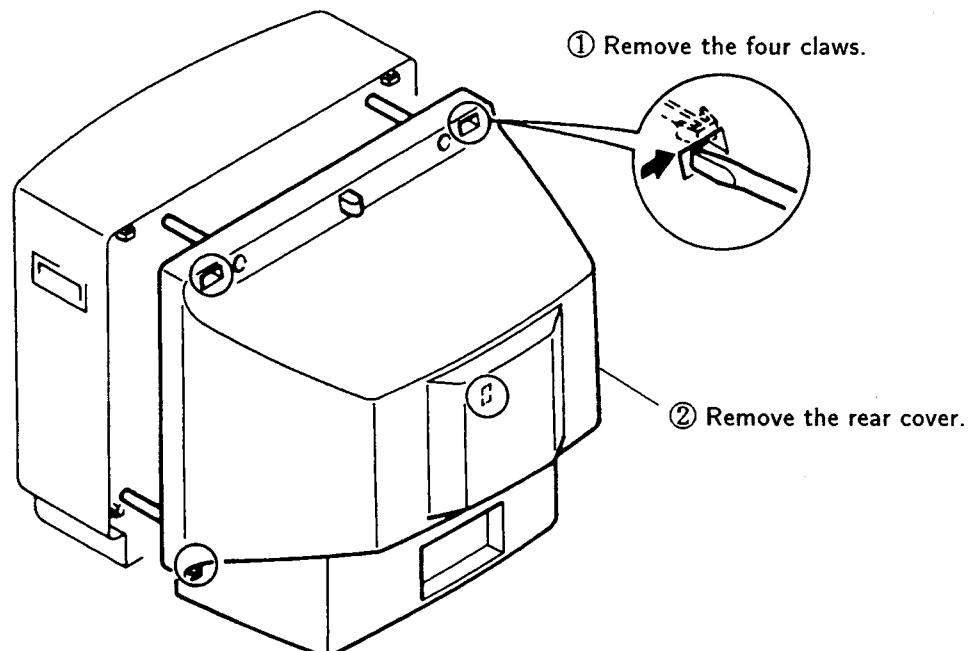
Example: To skip the program position 8

- 1 Press the PROGR +/- buttons until "8" appears.
- 2 Press the PRESET ON/OFF button.
- 3 Press the PIC MODE button on the Remote Commander.
Repeat steps 1 through 3 to skip other program position.
- 4 Press the PRESET ON/OFF button.

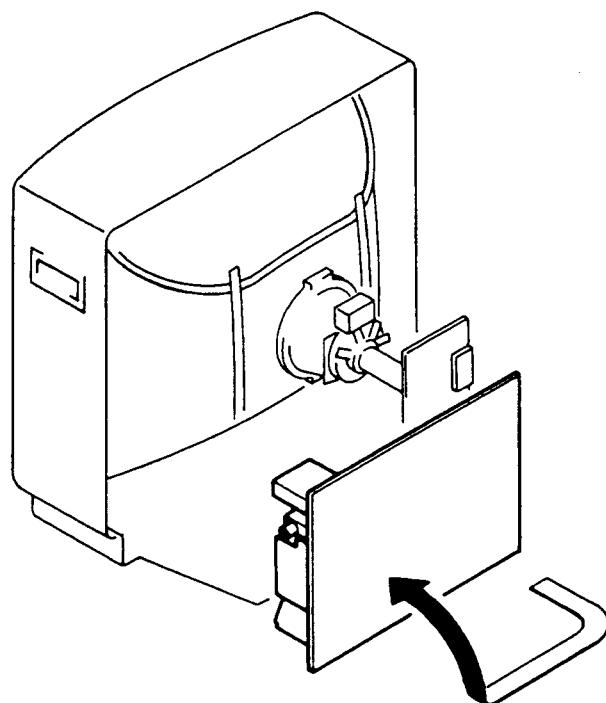
To restore the skipped program position
Preset the station manually as described in "Manual Presetting", or preset automatically again.

SECTION 2 DISASSEMBLY

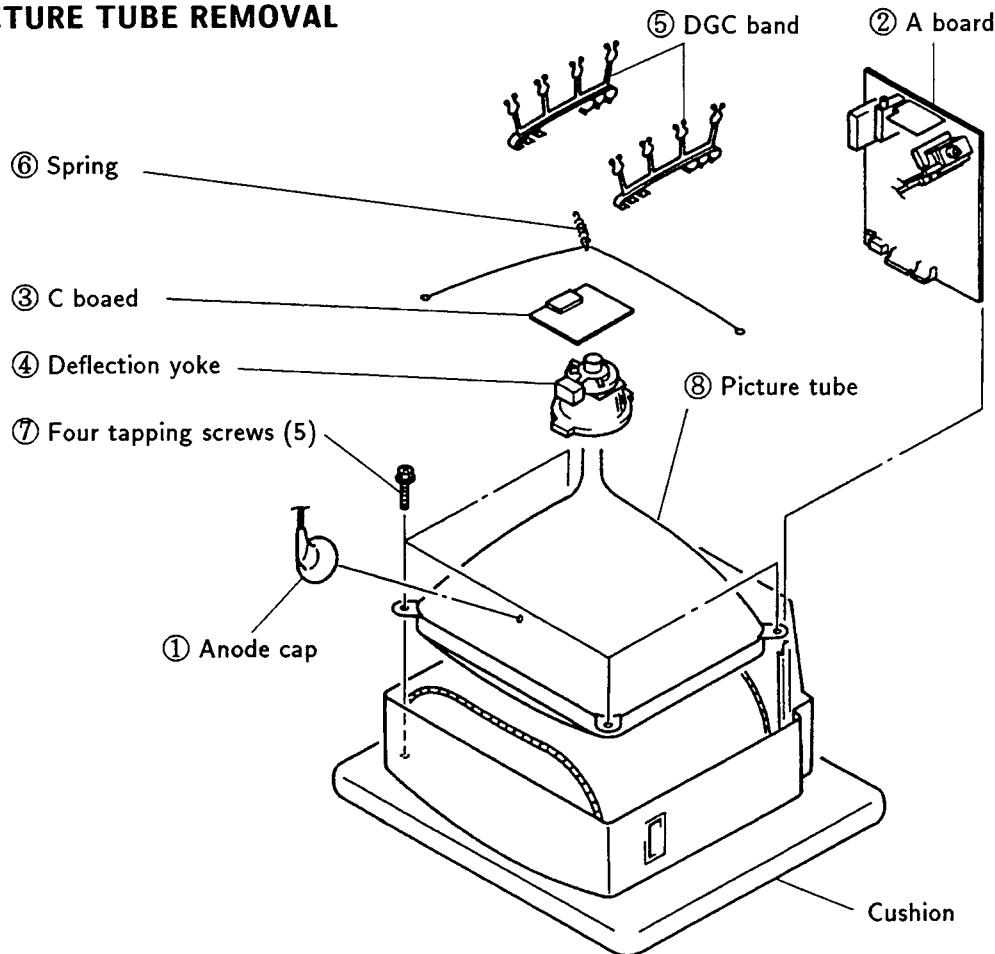
2-1. REAR COVER REMOVAL



2-2. SERVICE POSITION



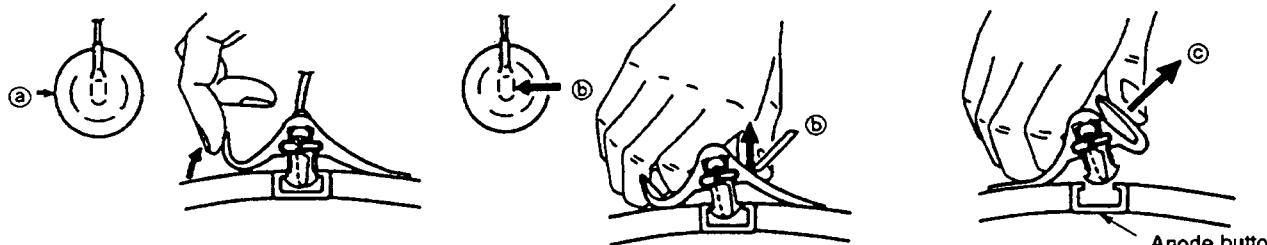
2-3. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

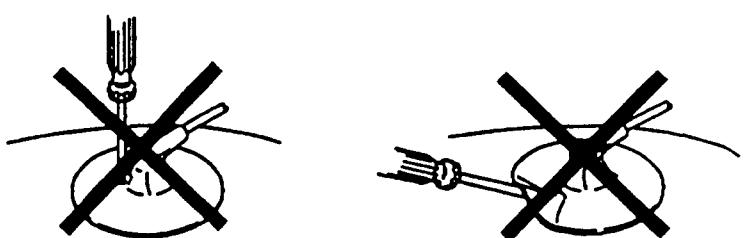
NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES



• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted :

PICTURE control normal

BRIGHTNESS control normal

Perform the adjustments in order as follows:

Preparation:

- Feed in the white pattern signal.
- Before starting, degauss the entire screen.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)

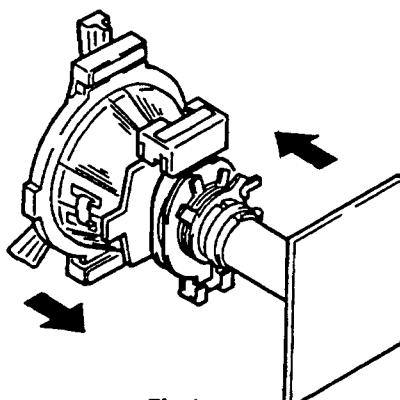


Fig.1

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required.

1. Color bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

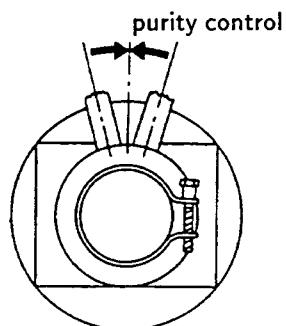


Fig.2

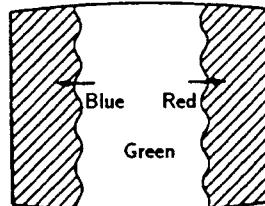
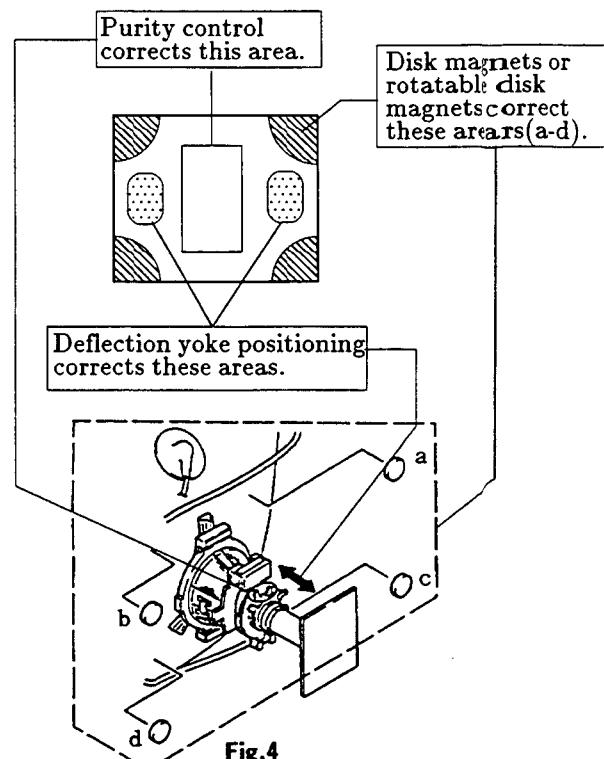


Fig.3

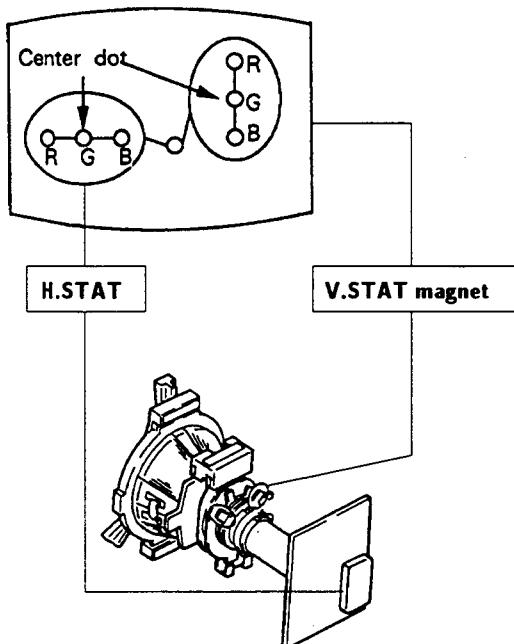


3-2. CONVERGENCE

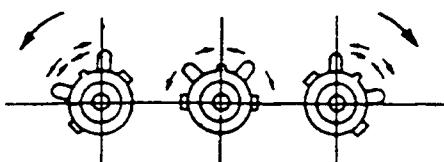
Preparation:

- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

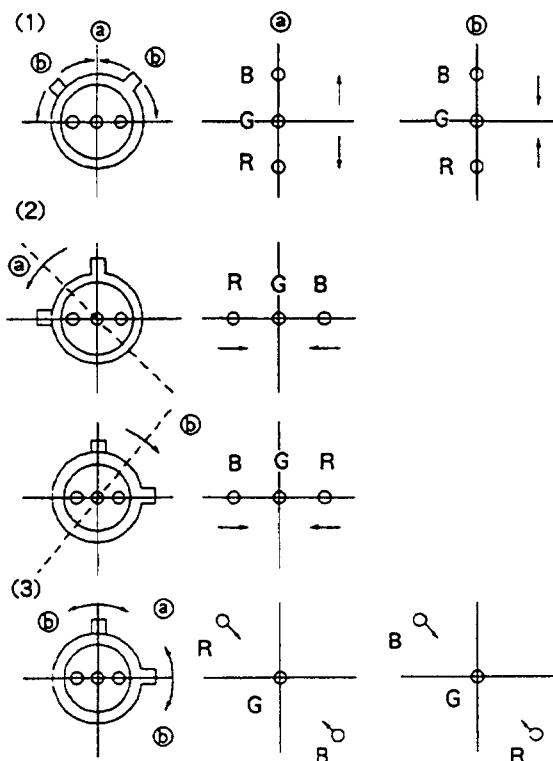
(1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ② and ③, red, green and blue dots move as shown below.

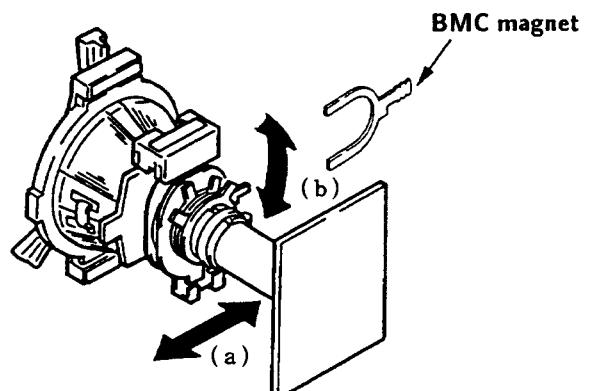


If the blue dot does not converge with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.



(2) Dynamic Convergence Adjustment

Preparation:

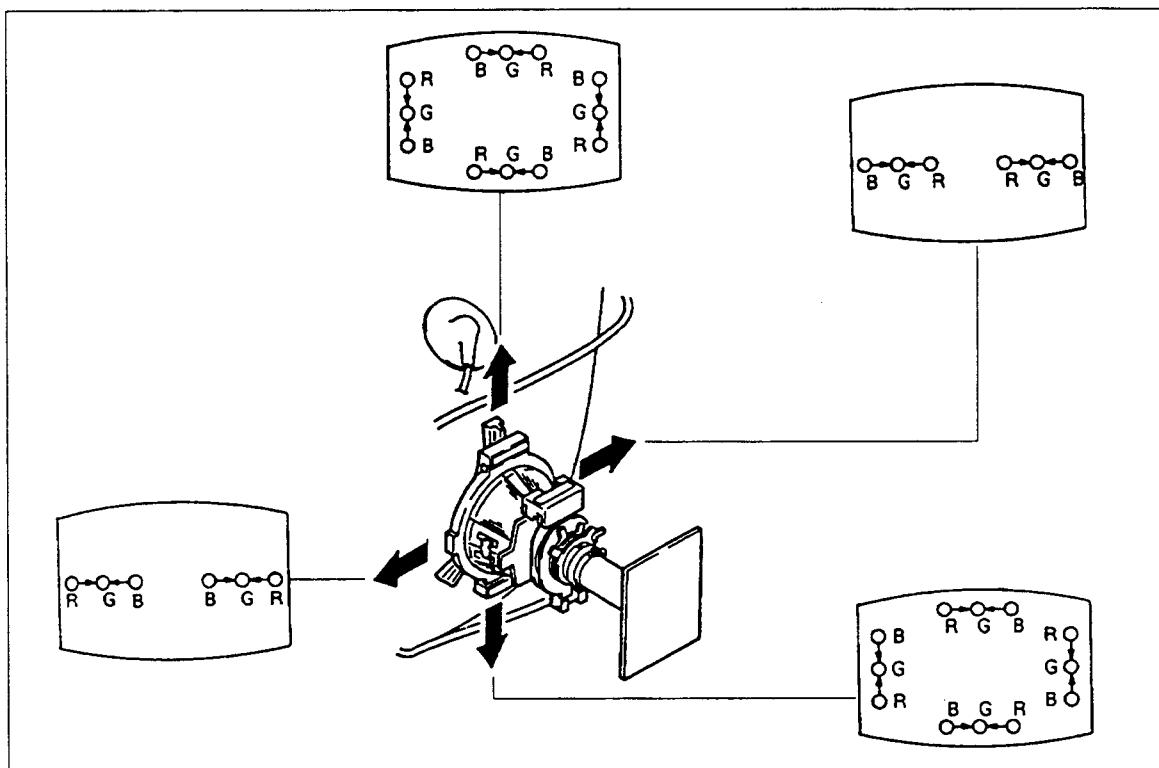
- Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.

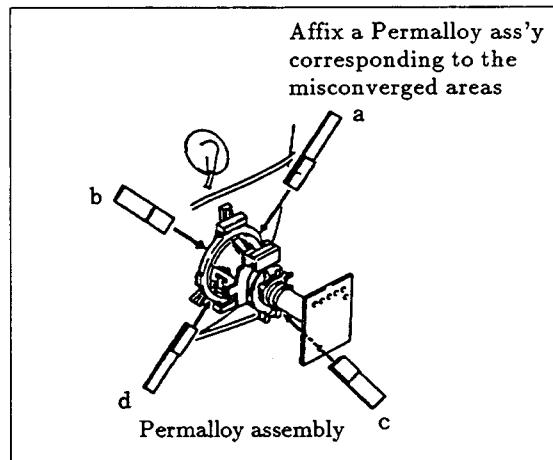
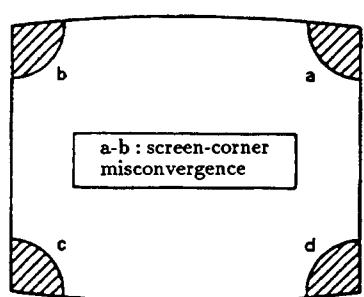
3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.

5. Install the deflection yoke spacers.

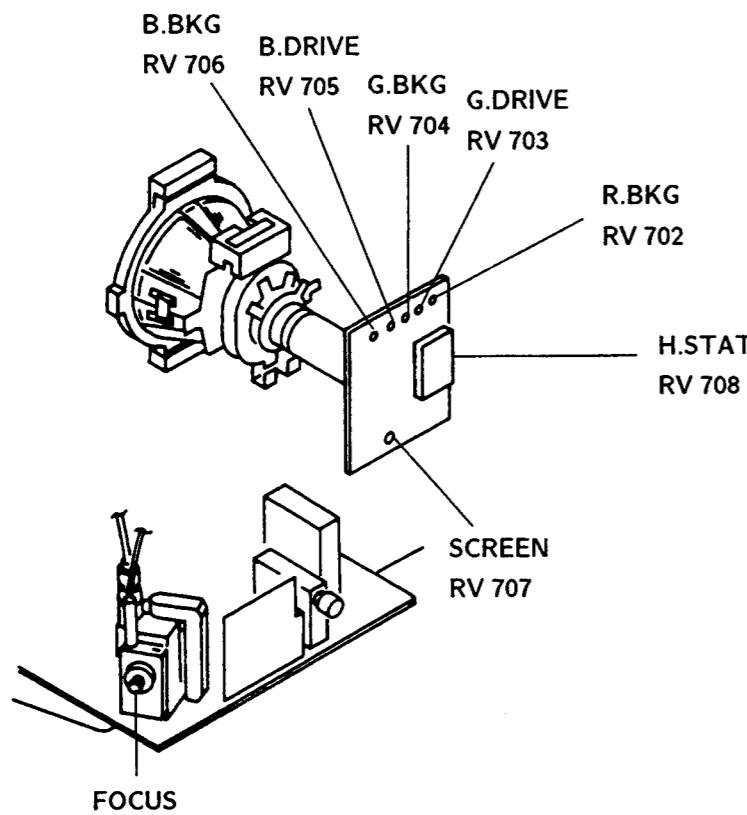


(3) Screen-corner Convergence



SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT



3-3. FOCUS

Adjust FOCUS control for best picture.

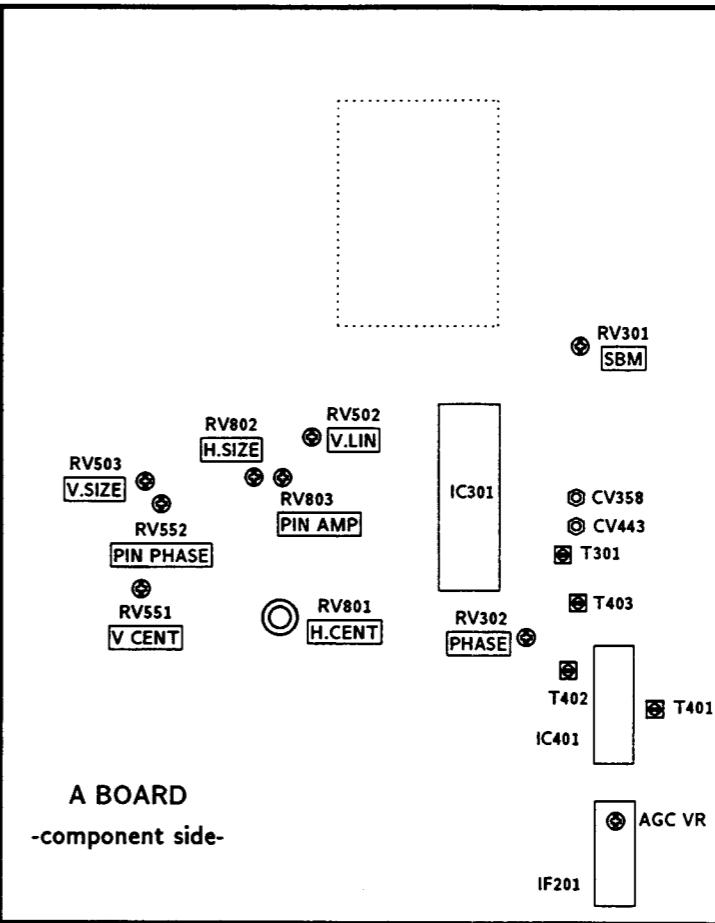
3-4. SCREEN(G 2) and WHITE BALANCE

[SCREEN(G2)]

1. Input a dots pattern.
2. Set the PIC, BRT controls at minimum and COLOR control at 50%.
3. Confirm the BKG voltage is less than 165 Vdc when turning RV 706 (B.BKG), RV 704 (G.BKG) and RV 702 (R.BKG).
4. Note the color when becomes visible first when turning RV707 (SCREEN).

[WHITE BALANCE]

1. Input a all white signal.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Turn RV 703 (G.DRIVE) and RV 705 (B.DRIVE) fully clockwise.
4. Adjust BKG controls for best white balance.
5. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
6. Repeat steps 4 and 5.



RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

A • P • C ADJUSTMENT (CV358) (NTSC)

1. Short circuit between pin ④ and pin ⑦ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC, COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

A • P • C ADJUSTMENT (CV443) (PAL)

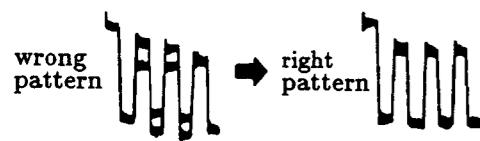
1. Short circuit between pin ④ and pin ⑦ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301, RV302, T301)

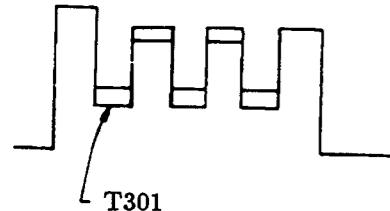
• ANTI PAL ADJUSTMENT

1. Input the PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust RV301 (DELAY) and RV302 (PHASE) to obtain the waveform as shown below.

• LINE CRAWLING ADJUSTMENT

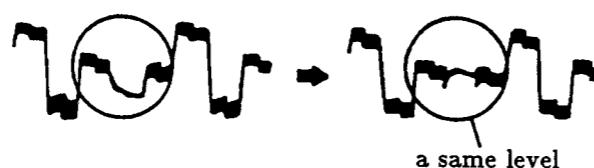


1. Input the PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust T301 for minimum line crawling.



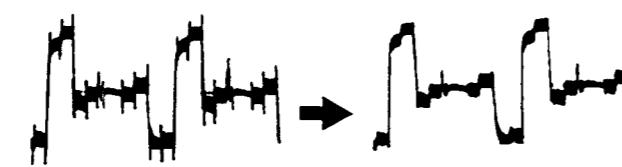
DISCRI ADJUSTMENT (T401, T402)

1. Input the SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to the pin ⑪ (B-Y) and pin ⑩ (R-Y) of IC401.
3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

1. Input the SECAM color-bar signal.
2. Connect the oscilloscope to pin ⑩ (R-Y) of IC 401.
3. Adjust T403 as shown the following figure.



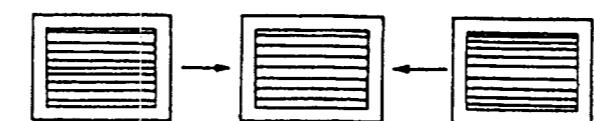
RV802 H.SIZE (HORIZONTAL SIZE)



RV503 V.SIZE (VERTICAL SIZE)



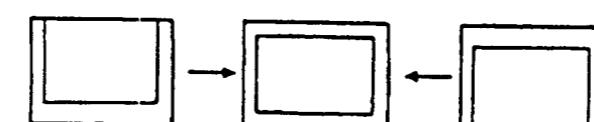
RV502 V.LIN (VERTICAL LINEARITY)



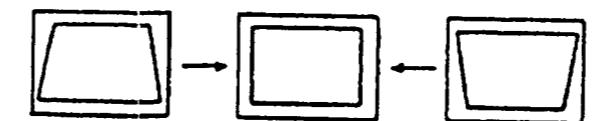
RV801 H.CENT (HORIZONTAL CENTER)



RV551 V.CENT (VERTICAL CENTER)



RV552 PIN PHASE (PINCUSHION PHASE)



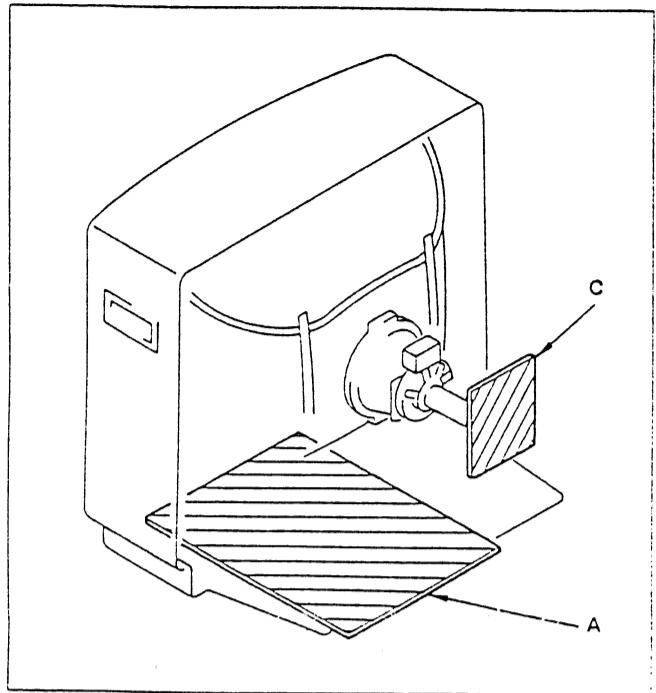
RV803 PIN AMP (PINCUSHION AMPLIFIER)



SECTION 5 DIAGRAMS

(1) Schematic Diagram of A Board

5-1. CIRCUIT BOARDS LOCATION



5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $\text{k}\Omega = 1000 \Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4} \text{W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.

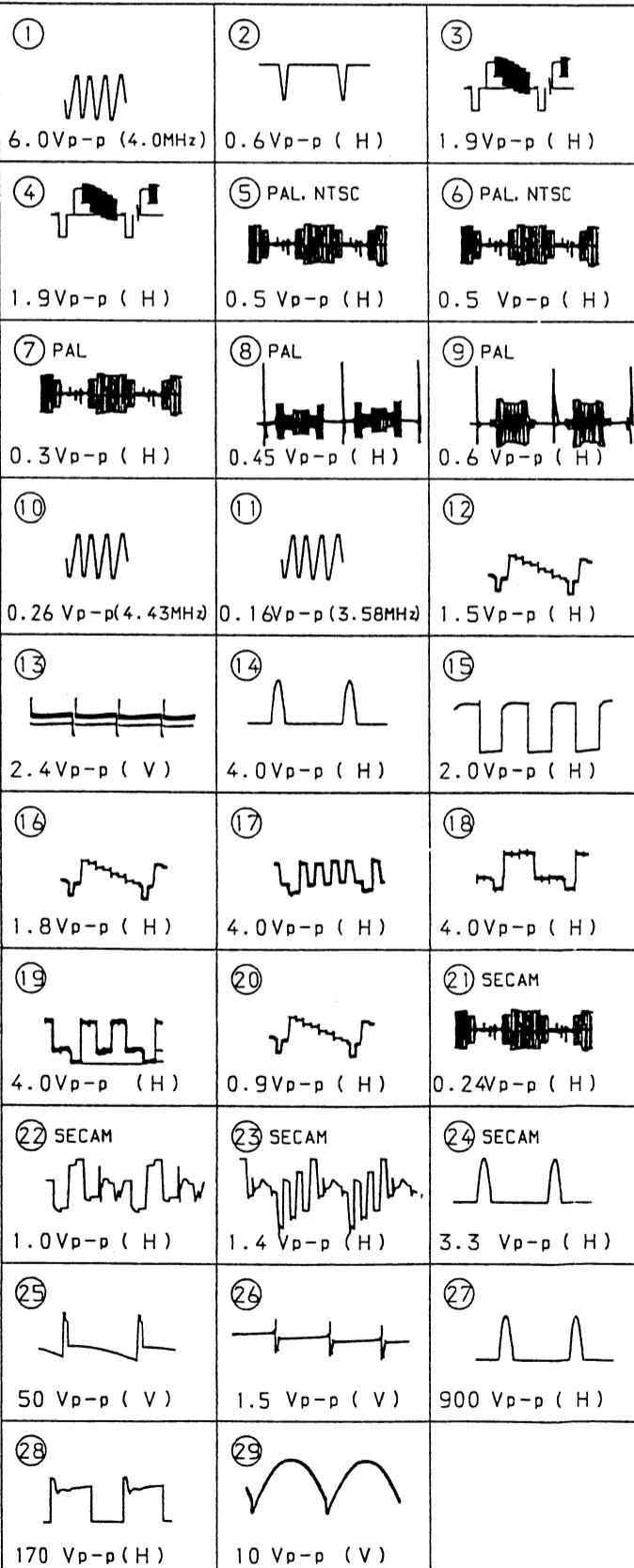
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Reference information

RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
	: RW NONFLAMMABLE WIREWOUND
	: \times ADJUSTMENT RESISTOR
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

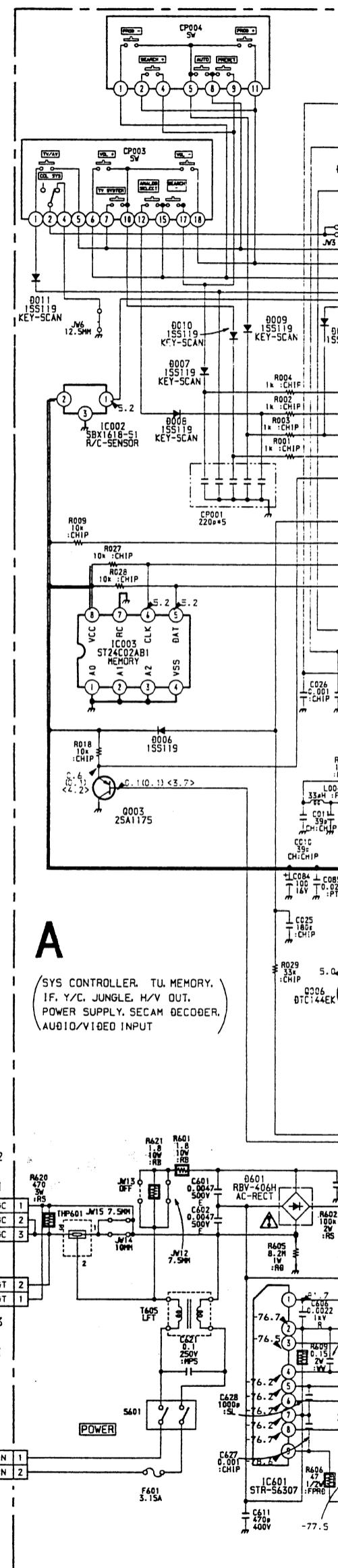
- Readings are taken with a color-bar signal input.
no mark : with PAL color-bar signal received.
() : with SECAM color-bar signal received.
() : with NTSC3.58 color-bar signal received.
- Readings are taken with a 10M Ω digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

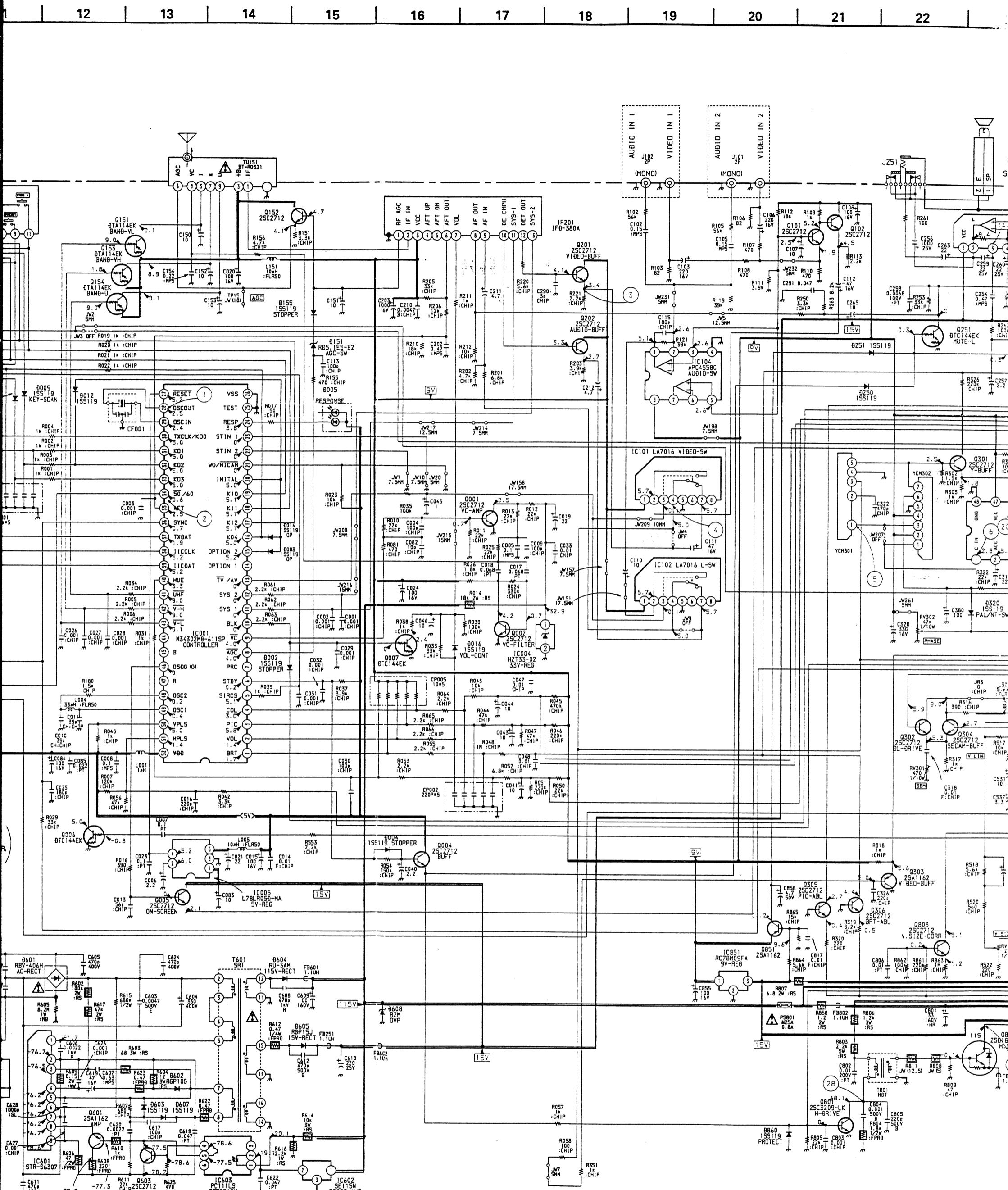
• A BOARD WAVEFORMS



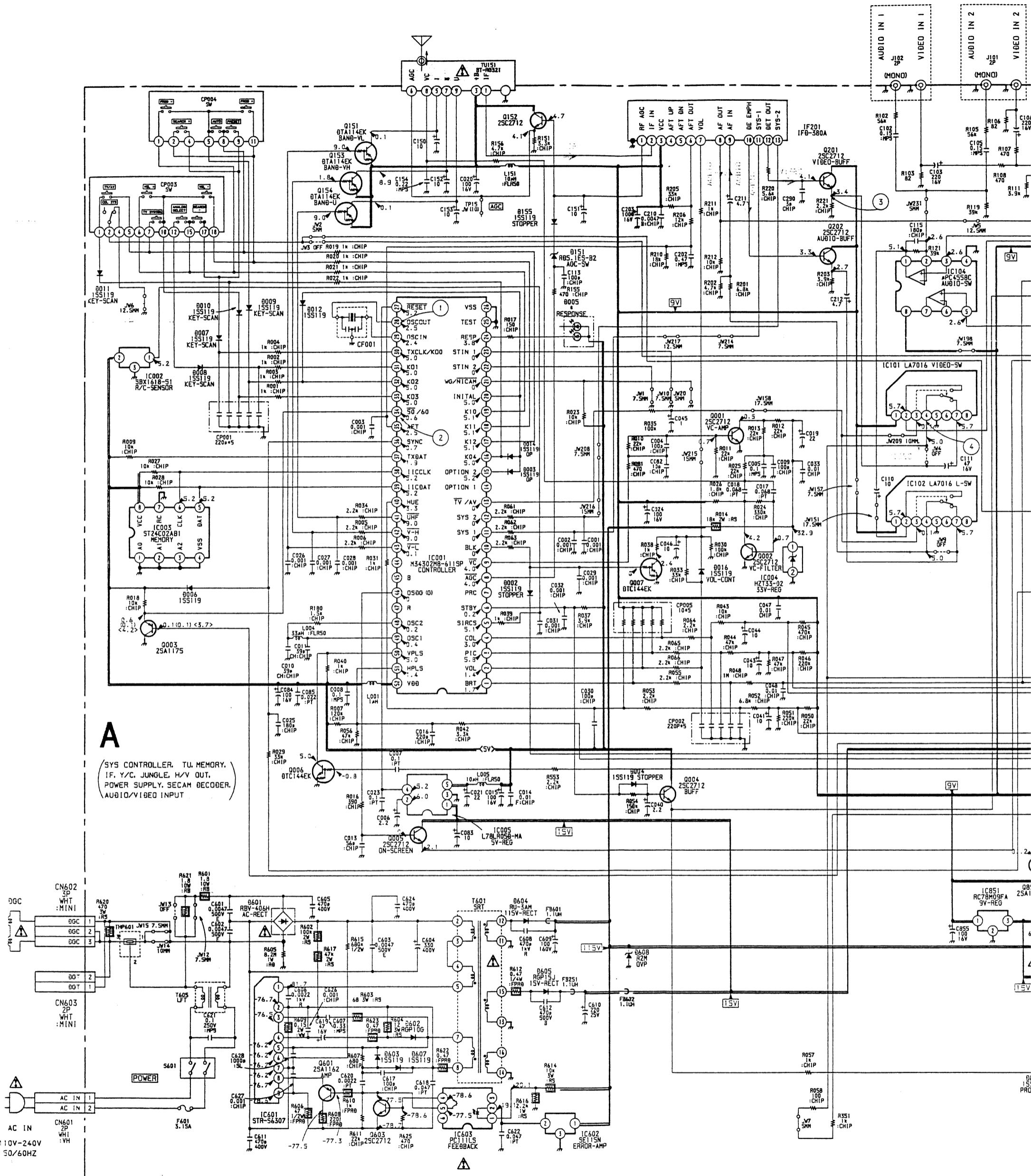
B-SS4187 < ME. > - A < WAVE LIST > - 1

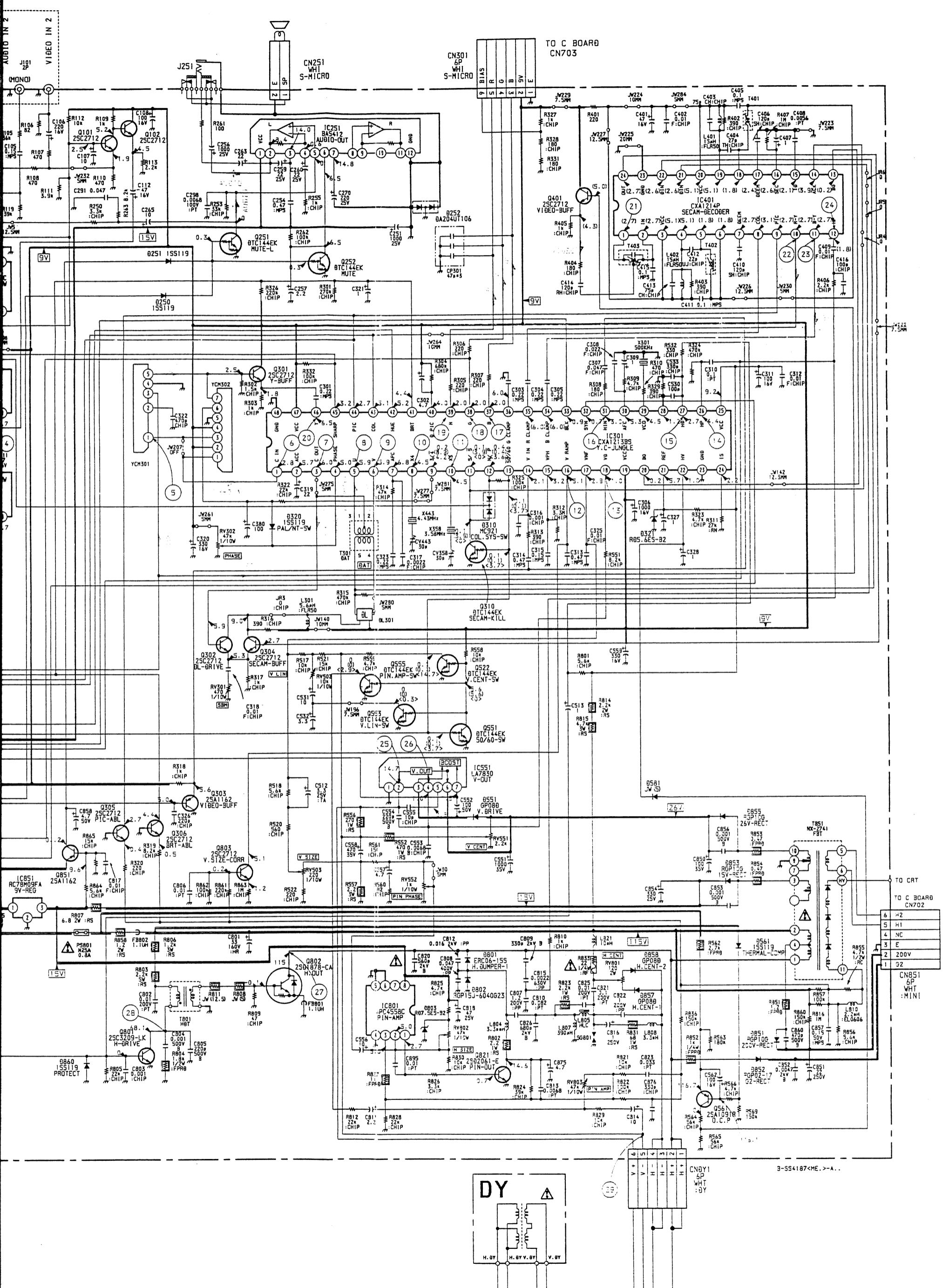
-2





) Schematic Diagram of A Board



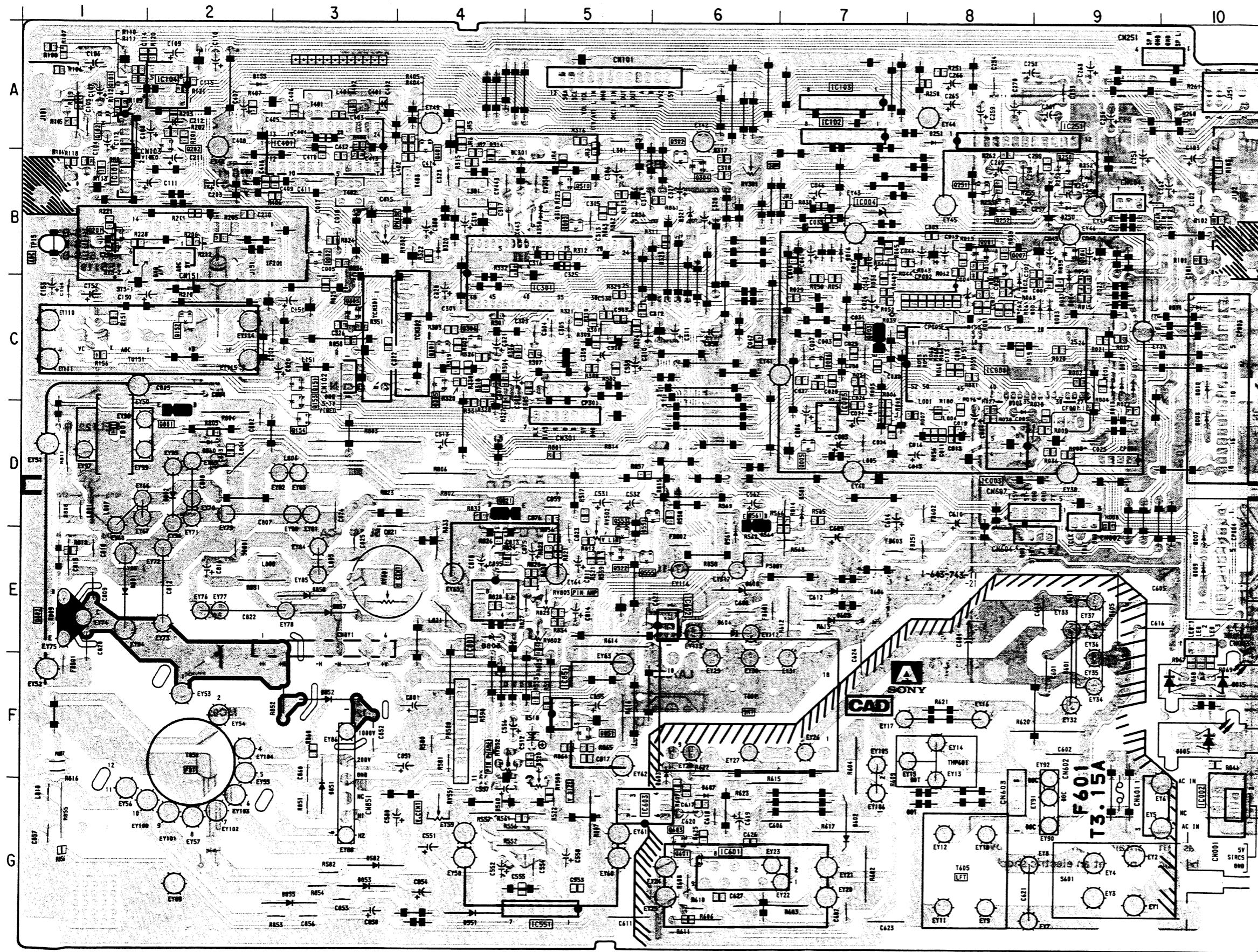
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

- A Board -

A [SYS CONTROLLER, TU, MEMORY, IF,
Y/C, JUNGLE, H/V OUT, POWER SUPPLY,
SECAM DECODER, AUDIO/VIDEO INPUT]

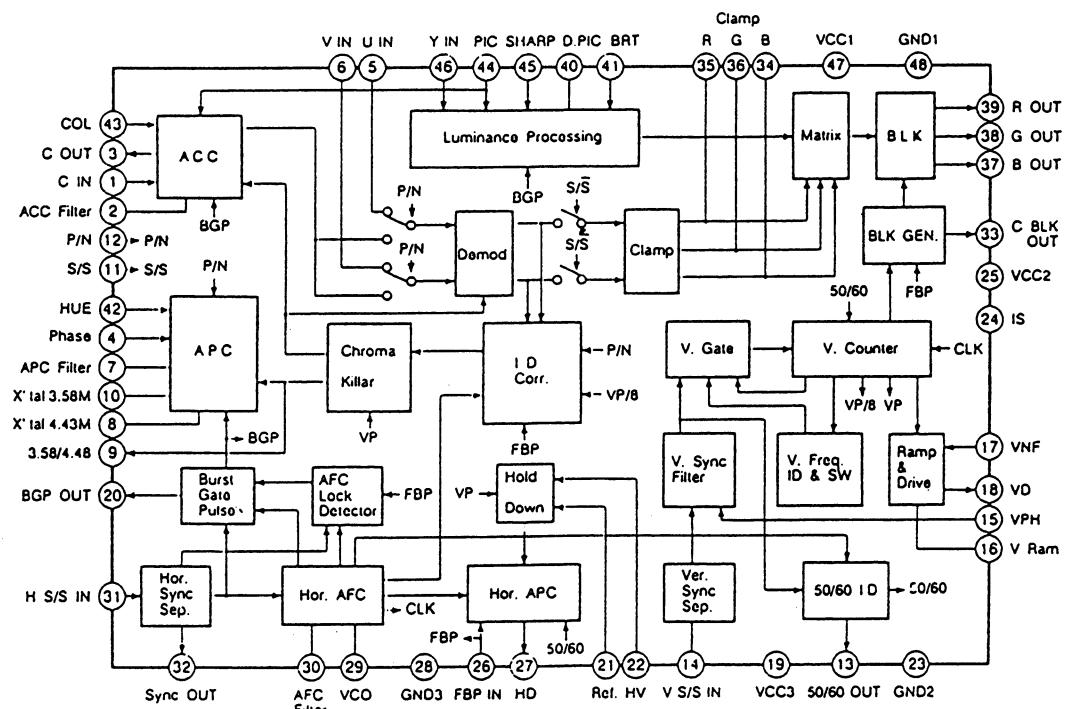
Board No

1-643-743-11 KV-2185MTJ only
1-643-743-21 KV-2185MT only

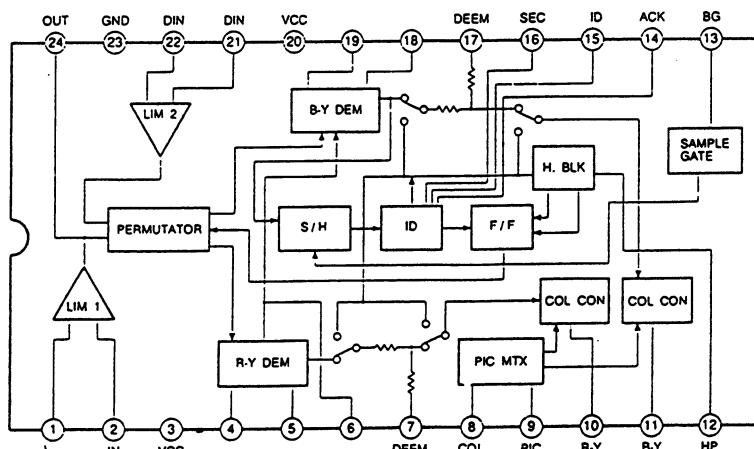


IC	DIODE	VARIABLE RESISTOR
IC001	C - 8	D002 C - 8 RV301 B - 6
IC002	G - 10	D003 C - 9 RV302 B - 3
IC003	D - 8	D004 C - 9 RV502 E - 5
IC004	B - 7	D005 F - 10 RV503 G - 5
IC005	D - 7	D006 D - 8 RV551 G - 4
IC101	B - 1	D007 E - 10 RV552 F - 4
IC102	A - 7	D008 D - 10 RV801 E - 3
IC104	A - 2	D009 E - 10 RV802 E - 5
IC251	A - 9	D010 C - 10 RV803 E - 5
IC301	C - 5	
IC401	A - 3	
IC551	G - 5	
IC601	G - 6	
IC602	E - 6	
IC603	G - 5	
IC801	E - 4	
IC851	F - 5	
DELAY LINE		
DL301	B - 4	
IF BLOCK		
IF201	B - 2	
TUNER		
TU151	C - 1	
CRYSTAL		
X301	C - 5	
X358	B - 5	
X443	B - 4	

A Board IC301 CXA1213S



A Board IC401 CXA1214P

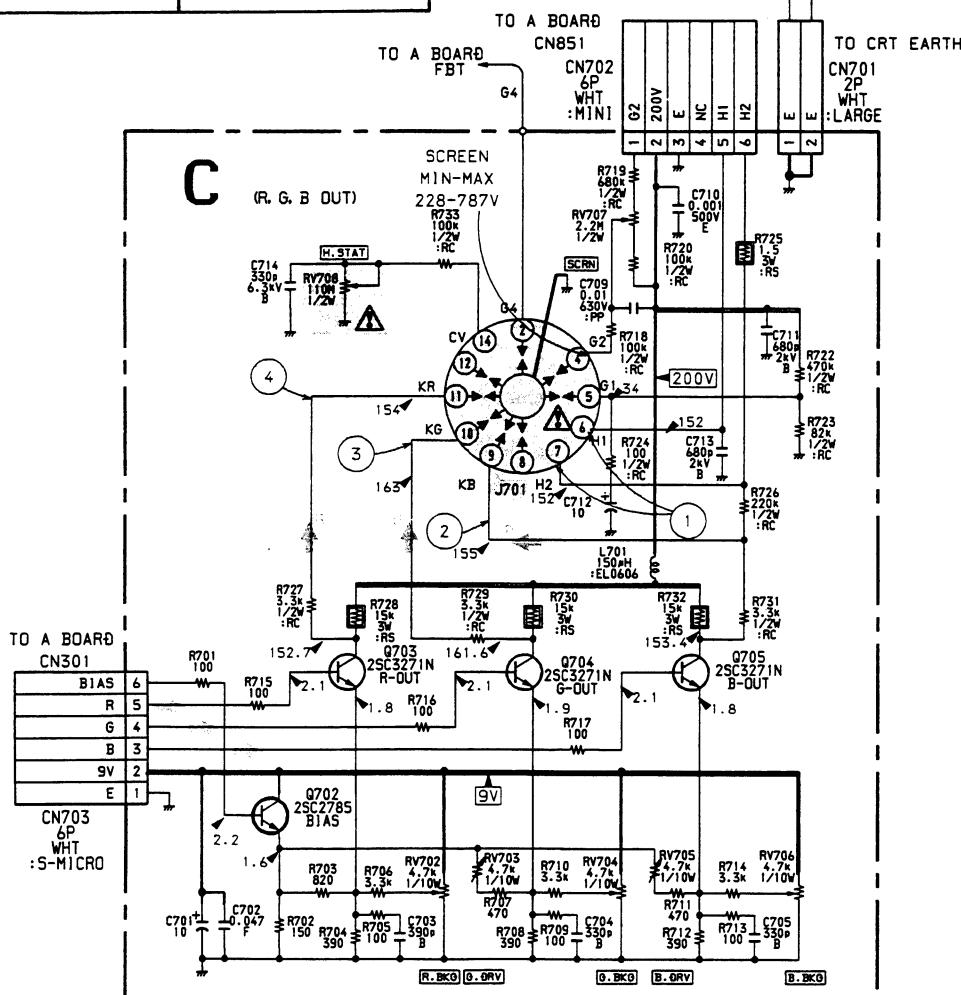
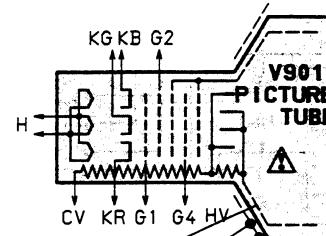
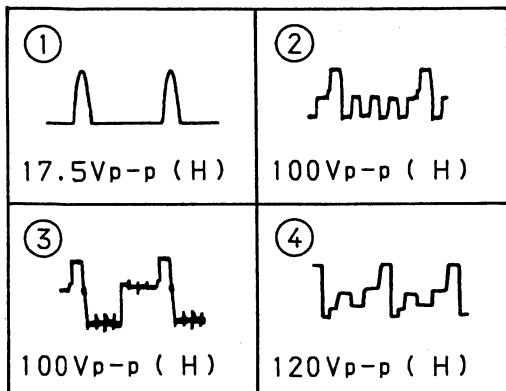


NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(2) Schematic Diagram of C Board

• C BOARD WAVEFORMS



C

(R.G.B OUT)

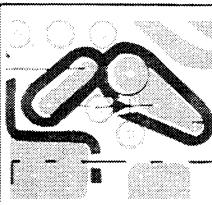
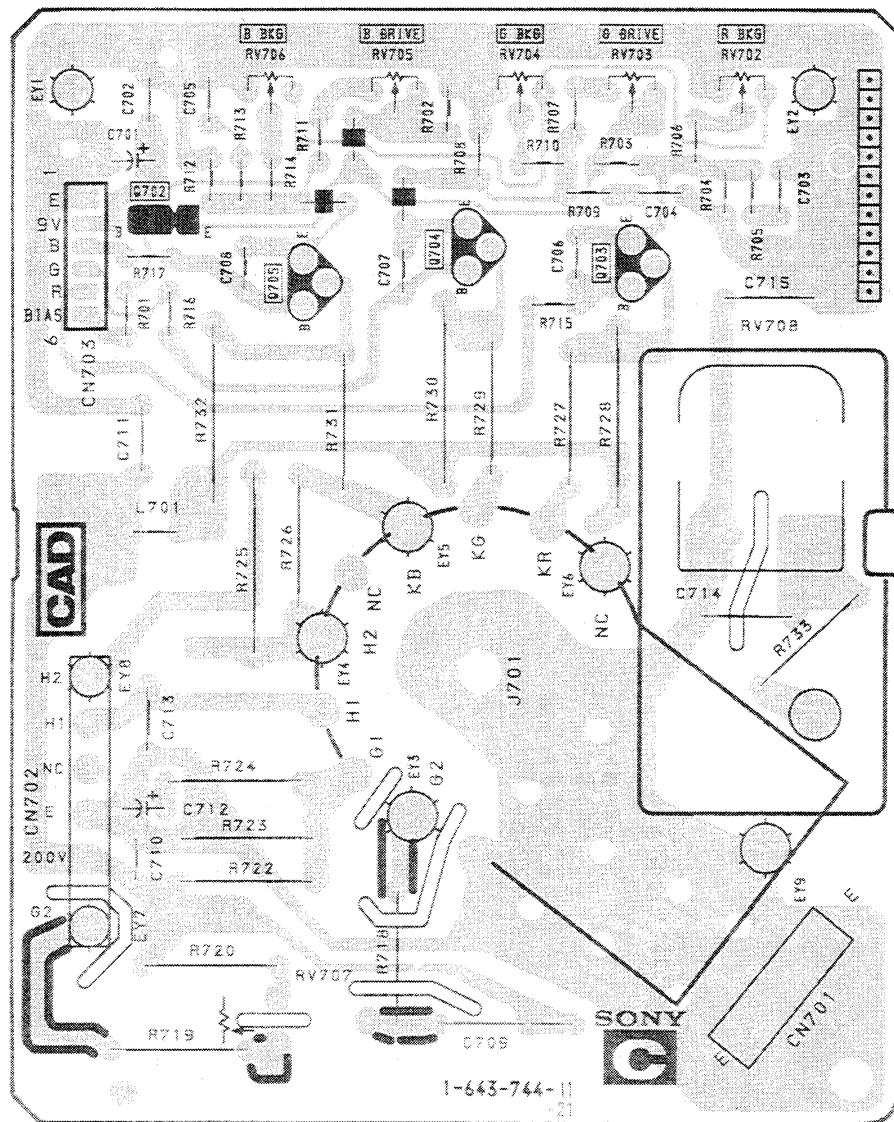
Board No

1-643-744-11

KV-2185MTJ only

KV-2185MT only

- C Board -

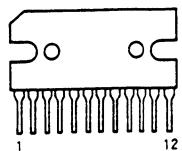


NOTE:

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

5-3. SEMICONDUCTORS

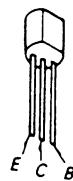
BA5412



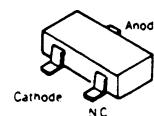
M34302M8-611SP



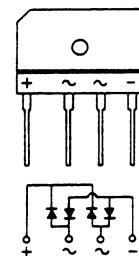
**2SA1091-O
2S1091R**



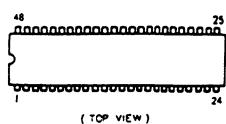
DA204U



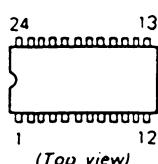
RBV-406H-01



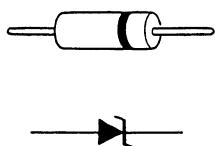
CXA1213BS



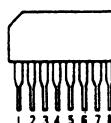
CXA1214P



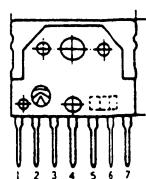
**HZT33-02
μPC574J**



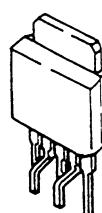
LA7016



LA7830



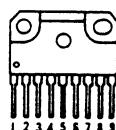
L78LR05D-MA



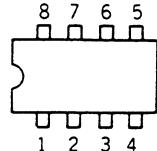
NJM78M09FA



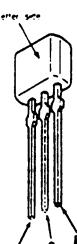
STR-S6307



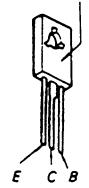
**ST24C02AB1
μPC4558C**



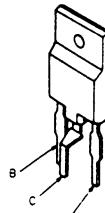
2SC2785-HFE



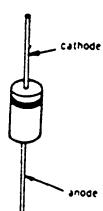
2SC3271-N



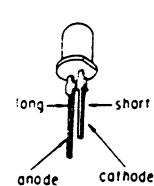
2SD1878-CA



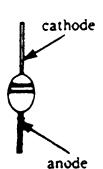
**EGP20G
RGP02-17
RGP15J**



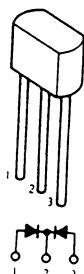
SEL1222R-C



**GP08D
U05G**



MC921



SECTION 6

EXPLODED VIEW

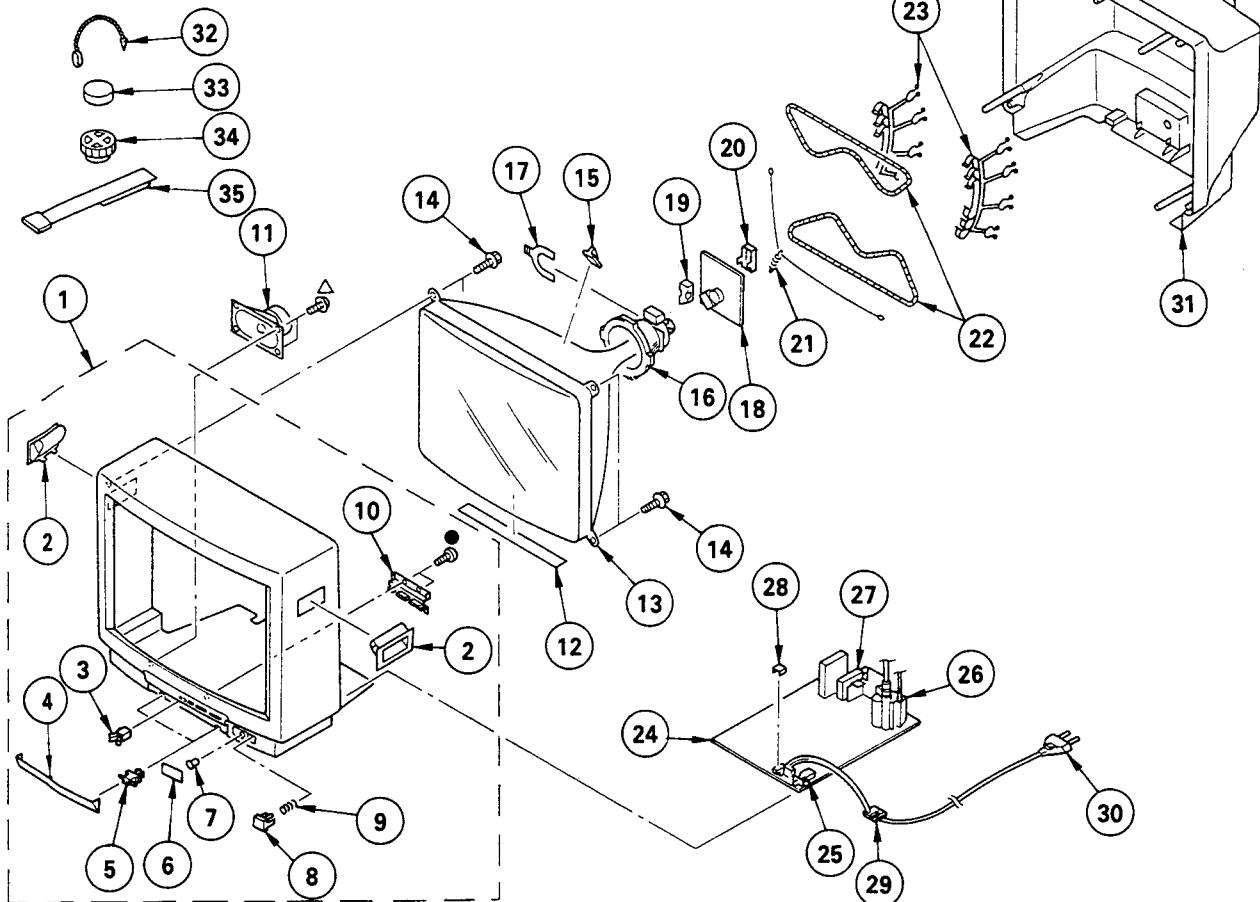
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety.
Replace only with part number specified.

● : BVTP3 × 12 7-685-648-79
△ : BVTP3 × 10 7-685-647-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4030-389-1	CABINET ASSY (WITH BEZEL ASSY)	2~10 (KV-2185MTJ)	15	3-704-495-01	SPACER, DY	
	X-4030-390-1	CABINET ASSY (WITH BEZEL ASSY)	2~10 (KV-2185MT)	16	△.1-451-280-11	DEFLECTION YOKE (Y21PXA2)	
2	4-313-702-91	HANDLE		17	1-452-277-00	MAGNET, BMC	
3	4-392-036-01	CATCHER, PUSH		18	*A-1331-211-A	C BOARD, COMPLETE	
4	4-036-426-01	DOOR, CONTROL (KV-2185MTJ)		19	*4-379-167-01	COVER (MAIN), CV	
4	4-036-422-01	DOOR, CONTROL (KV-2185MT)		20	*4-379-160-01	COVER (REAR LID), CV	
5	3-662-365-00	SHAFT (S), DOOR (KV-2185MTJ)		21	4-369-318-00	SPRING, TENSION	
4-032-761-01	SHAFT (S), DOOR (KV-2185MT)			22	△.1-426-368-11	COIL, DEMAGNETIZATION	
6	4-036-415-01	WINDOW, ORNAMENT (KV-2185MTJ)		23	*4-341-778-01	BAND, DEGAUSSING COIL	
4-036-413-01	WINDOW, ORNAMENTAL (KV-2185MT)			24	*A-1296-953-A	A BOARD, COMPLETE	
7	*4-374-987-01	GUIDE, LIGHT (KV-2185MTJ)		25	△.1-571-433-12	SWITCH, PUSH (AC POWER)	
*4-387-890-01	GUIDE, LIGHT (KV-2185MT)			26	△.1-439-536-11	TRANSFORMER ASSY, FLYBACK (NX-2140 A1)	
8	4-036-419-01	BUTTON, POWER (KV-2185MTJ)		27	△.1-693-120-11	TUNER, BT (BT-RG321)	
4-036-411-01	BUTTON, POWER (KV-2185MT)			28	*4-387-054-01	COVER, LED HOLDER	
9	4-036-405-01	SPRING, COMPRESSION (KV-2185MTJ)		29	△.4-022-115-01	HOLDER, AC CORD	
4-036-405-11	SPRING, COMPRESSION (KV-2185MT)			30	△.1-574-062-12	CORD, POWER (WITH CONNECTOR) (KV-2185MTJ)	
10	4-036-424-01	BUTTON, MULTI (KV-2185MTJ)		31	△.1-574-062-22	CORD, POWER (WITH CONNECTOR) (KV-2185MT)	
4-036-433-01	BUTTON, MULTI (KV-2185MT)			32	4-036-435-01	COVER, REAR (KV-2185MT)	
11	1-544-763-11	SPEAKER (12X5CM)		33	4-036-432-01	COVER, REAR (KV-2185MT)	
12	4-372-556-11	SHEET, BLOTTING		34	4-308-870-00	CLIP, LEAD WIRE	
13	△.8-738-759-05	PICTURE TUBE (A51JUH11X)		35	1-452-032-00	MAGNET, DISK; 10MM φ	
14	4-365-808-01	SCREW (5), TAPPING		34	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
				35	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

A

A

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CP005	1-239-347-21	NETWORK, RES		FB602	1-410-397-21	FERRITE BEAD INDUCTOR	
CP301	1-236-730-11	NETWORK, C		FB801	1-410-397-21	FERRITE BEAD INDUCTOR	
				FB802	1-410-397-21	FERRITE BEAD INDUCTOR	
<TRIMMER>							
CV358	1-141-245-00	TRIMMER, CERAMIC		<IC>			
CV443	1-141-245-00	TRIMMER, CERAMIC		IC001	8-759-072-35	IC M34302M8-611SP	
				IC002	8-741-100-62	IC SBX1618-51	
				IC003	8-759-043-86	IC ST24C02AB1	
				IC004	8-759-157-40	IC UPC574J	
				IC005	8-759-805-37	IC L78LR05D-MA	
<DIODE>							
D002	8-719-911-19	DIODE ISS119		IC101	8-759-800-81	IC LA7016	
D003	8-719-911-19	DIODE ISS119		IC102	8-759-800-81	IC LA7016	
D004	8-719-911-19	DIODE ISS119		IC104	8-759-145-58	IC UPC4558C	
D005	8-719-311-89	DIODE SEL1222R-C		IC251	8-759-501-93	IC BA5412	
D006	8-719-911-19	DIODE ISS119		IC301	8-752-036-21	IC CXA1213S	
D007	8-719-911-19	DIODE ISS119		IC401	8-752-056-67	IC CXA1214P	
D008	8-719-911-19	DIODE ISS119		IC551	8-759-801-98	IC LA7830	
D009	8-719-911-19	DIODE ISS119		IC601▲	8-749-920-67	IC STR-S6307	
D010	8-719-911-19	DIODE ISS119		IC602	8-749-921-89	IC SE115N	
D011	8-719-911-19	DIODE ISS119		IC603▲	8-719-987-48	PHOTO COUPLER PC111LS	
D012	8-719-911-19	DIODE ISS119		IC801	8-759-145-58	IC UPC4558C	
D014	8-719-911-19	DIODE ISS119		IC851	8-759-982-34	IC RC78M09FA	
D016	8-719-911-19	DIODE ISS119		<IF BLOCK>			
D151	8-719-109-85	DIODE RD5.1ES-B2		IF201	1-466-138-11	IF BLOCK (IFD-380A)	
D155	8-719-911-19	DIODE ISS119		<JACK>			
D250	8-719-911-19	DIODE ISS119		J101	1-695-239-11	JACK BLOCK, PIN 2P	
D251	8-719-911-19	DIODE ISS119		J102	1-695-238-11	JACK BLOCK, PIN 2P	
D252	8-719-941-23	DIODE DA204U		J251	1-562-837-21	JACK	
D310	8-719-000-06	DIODE MC921		<COIL>			
D320	8-719-911-19	DIODE ISS119		L001	1-408-397-00	INDUCTOR	1UH
D321	8-719-109-89	DIODE RD5.6ES-B2		L004	1-410-476-11	INDUCTOR	33UH
D551	8-719-911-55	DIODE U05G		L005	1-410-470-11	INDUCTOR	10UH
D561	8-719-911-19	DIODE ISS119		L151	1-410-470-11	INDUCTOR	10UH
D601	8-719-311-72	DIODE RBV-406H-01		L301	1-408-406-00	INDUCTOR	5.6UH
D602	8-719-300-33	DIODE RU-3AM		L401	1-410-472-41	INDUCTOR	15UH
D603	8-719-911-19	DIODE ISS119		L402	1-410-472-41	INDUCTOR	15UH
D604	8-719-300-33	DIODE RU-3AM		L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
D605	8-719-979-85	DIODE EGP20G		L805	1-459-769-13	COIL, HORIZONTAL LINEARITY	
D607	8-719-911-19	DIODE ISS119		L807	1-459-390-00	COIL (WITH CORE)	
D608	8-719-303-49	DIODE R2M		L808	1-412-553-11	INDUCTOR	3.3MMH
D801	8-719-945-80	DIODE ERC06-15S		L810	1-408-947-00	INDUCTOR	2.2MMH
D802	8-719-979-85	DIODE EGP20G		L821	1-459-111-00	COIL, DRAM CORE (CDI)	
D803	8-719-110-03	DIODE RD7.5ES-B2		<IC LINK>			
D851	8-719-300-33	DIODE RU-3AM		PS801▲	1-532-685-91	LINK, IC 0.8A	
D852	8-719-028-71	DIODE ES1FLF-G		<TRANSISTOR>			
D853	8-719-300-33	DIODE RU-3AM		Q001	8-729-230-49	TRANSISTOR 2SC2712-YG	
D855	8-719-300-33	DIODE RU-3AM		Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
D857	8-719-911-55	DIODE U05G		Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D858	8-719-911-55	DIODE U05G		Q004	8-729-230-49	TRANSISTOR 2SC2712-YG	
D860	8-719-911-19	DIODE ISS119		Q005	8-729-230-49	TRANSISTOR 2SC2712-YG	
<DELAY LINE>							
DL301	1-415-122-31	DELAY LINE, 1H (PAL)		Q006	8-729-901-01	TRANSISTOR DTC144EK	
<PILE UP>							
F601▲	1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V		Q007	8-729-901-01	TRANSISTOR DTC144EK	
	1-533-223-11	CLIP, FUSE; F601		Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
<FERRITE BEAD>							
FB251	1-410-397-21	FERRITE BEAD INDUCTOR					
FB601	1-410-397-21	FERRITE BEAD INDUCTOR					

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q102	8-729-230-49	TRANSISTOR 2SC2712-YG		R028	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q151	8-729-901-04	TRANSISTOR DTA114EK		R029	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q152	8-729-230-49	TRANSISTOR 2SC2712-YG		R030	1-216-097-00	METAL GLAZE	100K 5% 1/10W
Q153	8-729-901-04	TRANSISTOR DTA114EK		R031	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q154	8-729-901-04	TRANSISTOR DTA114EK		R033	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q201	8-729-230-49	TRANSISTOR 2SC2712-YG		R034	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q202	8-729-230-49	TRANSISTOR 2SC2712-YG		R035	1-216-097-00	METAL GLAZE	100K 5% 1/10W
Q251	8-729-901-01	TRANSISTOR DTC144EK		R037	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q252	8-729-901-01	TRANSISTOR DTC144EK		R038	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG		R039	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG		R040	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q303	8-729-230-46	TRANSISTOR 2SA1162-YG		R042	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG		R043	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q305	8-729-230-49	TRANSISTOR 2SC2712-YG		R044	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q306	8-729-230-49	TRANSISTOR 2SC2712-YG		R045	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q310	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-105-00	METAL GLAZE	220K 5% 1/10W
Q401	8-729-230-49	TRANSISTOR 2SC2712-YG		R047	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q522	8-729-901-01	TRANSISTOR DTC144EK		R048	1-216-121-00	METAL GLAZE	1M 5% 1/10W
Q551	8-729-901-01	TRANSISTOR DTC144EK		R050	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q553	8-729-901-01	TRANSISTOR DTC144EK		R051	1-216-105-00	METAL GLAZE	220K 5% 1/10W
Q555	8-729-901-01	TRANSISTOR DTC144EK		R052	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q561	8-729-200-17	TRANSISTOR 2SA1091-0		R053	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q601	8-729-230-46	TRANSISTOR 2SA1162-YG		R054	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q603	8-729-230-49	TRANSISTOR 2SC2712-YG		R055	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q801	8-729-140-50	TRANSISTOR 2SC3209LK		R056	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q802	8-729-821-87	TRANSISTOR 2SD1878-CA		R057	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q803	8-729-230-49	TRANSISTOR 2SC2712-YG		R058	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q821	8-729-209-15	TRANSISTOR 2SD2012		R061	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q851	8-729-230-46	TRANSISTOR 2SA1162-YG		R062	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
<RESISTOR>							
JR1	1-216-295-00	METAL GLAZE 0 5% 1/10W		R063	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W		R064	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR3	1-216-295-00	METAL GLAZE 0 5% 1/10W		R065	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W		R066	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR5	1-216-295-00	METAL GLAZE 0 5% 1/10W		R081	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR6	1-216-295-00	METAL GLAZE 0 5% 1/10W		R102	1-216-091-00	METAL GLAZE	56K 5% 1/10W
JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W		R103	1-216-023-00	METAL GLAZE	82 5% 1/10W
R001	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R105	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R002	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R106	1-216-023-00	METAL GLAZE	82 5% 1/10W
R003	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R107	1-216-041-00	METAL GLAZE	470 5% 1/10W
R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R108	1-216-041-00	METAL GLAZE	470 5% 1/10W
R005	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R109	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R006	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R110	1-216-041-00	METAL GLAZE	470 5% 1/10W
R007	1-216-099-00	METAL GLAZE 120K 5% 1/10W		R111	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R009	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R112	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R010	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R113	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R011	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R119	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R012	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R121	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R013	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R151	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R014	1-216-464-11	METAL OXIDE 18K 5% 2W F		R155	1-216-041-00	METAL GLAZE	470 5% 1/10W
R016	1-216-039-00	METAL GLAZE 390 5% 1/10W		R156	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R017	1-216-029-00	METAL GLAZE 150 5% 1/10W		R180	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R018	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R201	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R019	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R202	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R020	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R203	1-249-424-11	CARBON	3.9K 5% 1/4W
R021	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R022	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R206	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R023	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R210	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R024	1-216-109-00	METAL GLAZE 330K 5% 1/10W		R211	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R025	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R212	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W		R220	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R027	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R221	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
				R250	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
				R253	1-216-085-00	METAL GLAZE	33K 5% 1/10W

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The components identified by shading and mark **▲** are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R255	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R603	1-215-910-00	METAL OXIDE	68 5% 3W F
R261	1-249-411-11	CARBON	330 5% 1/4W	R604	1-216-469-11	METAL OXIDE	12 5% 3W F
R262	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R605 ▲.1-218-265-91	METAL GLAZE	8.2M 5% 1W	
R301	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R606	1-247-735-11	CARBON	47 5% 1/2W F
R302	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R607	1-216-045-00	METAL GLAZE	680 5% 1/10W
R303	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R608	1-249-409-11	CARBON	220 5% 1/4W F
R304	1-216-117-00	METAL GLAZE	680K 5% 1/10W	R609	1-217-190-21	WIREWOUND	0.15 10% 2W F
R305	1-216-033-00	METAL GLAZE	220 5% 1/10W	R610	1-249-417-11	CARBON	1K 5% 1/4W F
R306	1-216-033-00	METAL GLAZE	220 5% 1/10W	R611	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R307	1-216-033-00	METAL GLAZE	220 5% 1/10W	R612	1-249-377-11	CARBON	0.47 5% 1/4W F
R308	1-216-031-00	METAL GLAZE	180 5% 1/10W	R614	1-215-923-00	METAL OXIDE	10K 5% 3W F
R309	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R615	1-244-941-00	CARBON	680K 5% 1/2W
R310	1-216-041-00	METAL GLAZE	470 5% 1/10W	R616	1-215-871-11	METAL OXIDE	2.2K 5% 1W
R311	1-215-455-00	METAL GLAZE	27K 1% 1/4W	R617 ▲.1-215-902-51	METAL OXIDE	47K 5% 2W F	
R312	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R620 ▲.1-215-915-51	METAL OXIDE	470 5% 3W F	
R313	1-216-039-00	METAL GLAZE	390 5% 1/10W	R621 ▲.1-205-949-11	WIREWOUND	1.8 5% 10W F	
R314	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R622	1-249-377-11	CARBON	0.47 5% 1/4W F
R315	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R623	1-249-377-11	CARBON	0.47 5% 1/4W F
R316	1-216-039-00	METAL GLAZE	390 5% 1/10W	R625	1-216-041-00	METAL GLAZE	470 5% 1/10W
R317	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R801	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R318	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R802	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R319	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R803	1-215-944-11	METAL OXIDE	2.2K 5% 5W F
R320	1-216-033-00	METAL GLAZE	220 5% 1/10W	R804	1-247-755-11	CARBON	1.8K 5% 1/2W F
R322	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R805	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R323	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R806	1-216-481-11	METAL OXIDE	1.2K 5% 3W F
R324	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R807	1-216-379-11	METAL OXIDE	6.8 5% 2W F
R325	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R809	1-216-017-00	METAL GLAZE	47 5% 1/10W
R326	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R810	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R327	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R812	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R328	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R814	1-215-894-11	METAL OXIDE	2.2K 5% 2W F
R329	1-216-039-00	METAL GLAZE	390 5% 1/10W	R815	1-215-921-11	METAL OXIDE	4.7K 5% 3W F
R331	1-216-037-00	METAL GLAZE	330 5% 1/10W	R816	1-247-903-00	CARBON	1M 5% 1/4W
R332	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R821	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R351	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R822	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R401	1-249-409-11	CARBON	220 5% 1/4W	R823	1-215-871-11	METAL OXIDE	2.2K 5% 1W F
R402	1-216-039-00	METAL GLAZE	390 5% 1/10W	R824	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R403	1-216-039-00	METAL GLAZE	390 5% 1/10W	R825	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R404	1-216-031-00	METAL GLAZE	180 5% 1/10W	R826	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R405	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R827	1-249-417-11	CARBON	1K 5% 1/4W F
R406	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R828	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R407	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R829	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R830	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R518	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R831	1-215-862-11	METAL OXIDE	68 5% 1W F
R520	1-216-043-00	METAL GLAZE	560 5% 1/10W	R833 ▲.1-212-865-61	FUSIBLE	22 5% 1/4W F	
R521	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R836	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R522	1-216-033-00	METAL GLAZE	220 5% 1/10W	R851	1-249-382-11	CARBON	1.2 5% 1/4W F
R532	1-216-037-00	METAL GLAZE	330 5% 1/10W	R852	1-247-713-11	CARBON	1K 5% 1/4W F
R551	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R853	1-249-377-11	CARBON	0.47 5% 1/4W F
R552	1-215-867-00	METAL OXIDE	470 5% 1W F	R854	1-249-377-11	CARBON	0.47 5% 1/4W F
R553	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R856	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R556	1-216-429-00	METAL OXIDE	270 5% 1W F	R857	1-249-441-11	CARBON	100K 5% 1/4W
R557	1-216-393-00	METAL OXIDE	2.2 5% 3W F	R858	1-216-370-11	METAL OXIDE	1.2 5% 2W F
R558	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R860	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R559	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R861	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R560	1-216-023-00	METAL GLAZE	82 5% 1/10W	R862	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R561	1-216-029-00	METAL GLAZE	150 5% 1/10W	R863	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R562	1-249-422-11	CARBON	2.7K 5% 1/4W F	R864	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R563	1-247-885-00	CARBON	180K 5% 1/4W	R865	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R564	1-216-091-00	METAL GLAZE	56K 5% 1/10W			<VARIABLE RESISTOR>	
R565	1-216-091-00	METAL GLAZE	56K 5% 1/10W				
R566	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	RV301	1-238-011-11	RES, ADJ, CARBON	470
R569	1-247-883-00	CARBON	150K 5% 1/4W	RV302	1-241-632-11	RES, ADJ, CARBON	47K
R601 ▲.1-205-949-11	WIREWOUND	1.8 5% 10W F					
R602 ▲.1-215-904-51	METAL OXIDE	100K 5% 2W F					

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
RV502	1-241-630-11	RES, ADJ, CARBON	10K		C711	1-162-116-00	CERAMIC	680PF	10% 2KV
RV503	1-238-566-21	RES, ADJ, CARBON	220		C712	1-124-907-11	ELECT	10MF	20% 50V
RV551	1-224-250-99	RES, ADJ, METAL GLAZE	2.2K		C713	1-162-116-00	CERAMIC	680PF	10% 2KV
RV552	1-241-627-11	RES, ADJ, CARBON	1K		C714	1-162-622-11	CERAMIC	330PF	10% 6.3KV
RV801	1-223-102-21	RES, ADJ, WIREWOUND	120						
RV802	I-241-632-11	RES, ADJ, CARBON	47K						
RV803	I-241-632-11	RES, ADJ, CARBON	47K						
		<SWITCH>							
S601	A.1-571-433-12	SWITCH, PUSH (AC POWER)							
		<SPARK GAP>							
SG801	1-519-422-11	GAP, SPARK							
		<TRANSFORMER>							
T301	1-404-524-11	DAT			L701	1-408-423-00	INDUCTOR	150UH	
T401	1-404-496-00	COIL							
T402	1-404-496-00	COIL							
T403	1-404-584-11	COIL							
T601	A.1-450-988-11	TRANSFORMER, CONVERTER (SRT)							
T605	A.1-424-682-11	TRANSFORMER, LINE FILTER							
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE							
T851	A.1-439-536-11	TRANSFORMER ASSY, FLYBACK (NX-2740A1)							
		<THERMISTOR>							
THP601	A.1-808-059-32	THERMISTOR, POSITIVE							
		<TUNER>							
TU151	A.1-693-120-11	TUNER, ET (BT-RG321)							
		<CRYSTAL>							
X301	1-577-611-11	OSCILLATOR, CERAMIC							
X358	1-567-505-11	OSCILLATOR, CRYSTAL							
X443	1-567-504-11	OSCILLATOR, CRYSTAL							
		<MODULE>							
YCM301	1-235-833-11	YC MODULE							
YCM302	1-236-228-11	FILTER MODULE							

*A-1331-211-A	C BOARD, COMPLETE				R716	1-249-405-11	CARBON	100	5% 1/4W
	*****				R702	1-249-407-11	CARBON	150	5% 1/4W
*4-341-751-01	EYELET (EY1,EY2,EY7,EY8)				R703	1-249-416-11	CARBON	820	5% 1/4W
*4-341-752-01	EYELET (EY3~EY6)				R704	1-249-412-11	CARBON	390	5% 1/4W
*4-379-160-01	COVER (REAR LID), CV				R705	1-249-405-11	CARBON	100	5% 1/4W
*4-379-167-01	COVER (MAIN), CV				R706	1-249-423-11	CARBON	3.3K	5% 1/4W
		<CAPACITOR>			R707	1-249-413-11	CARBON	470	5% 1/4W
C701	1-124-907-11	ELECT	10MF	20%	R708	1-249-412-11	CARBON	390	5% 1/4W
C702	I-101-006-00	CERAMIC	0.047MF		R709	1-249-405-11	CARBON	100	5% 1/4W
C703	I-102-113-00	CERAMIC	390PF	10%	R710	1-249-423-11	CARBON	3.3K	5% 1/4W
C704	I-102-112-00	CERAMIC	330PF	10%	R711	1-249-413-11	CARBON	470	5% 1/4W
C705	I-102-112-00	CERAMIC	330PF	10%	R712	1-249-412-11	CARBON	390	5% 1/4W
C709	I-136-601-11	FILM	0.01MF	10%	R713	1-249-405-11	CARBON	100	5% 1/4W
C710	I-102-038-00	CERAMIC	0.001MF		R714	1-249-423-11	CARBON	3.3K	5% 1/4W
					R715	1-249-405-11	CARBON	100	5% 1/4W
		<RESISTOR>			R716	1-249-405-11	CARBON	100	5% 1/4W
					R717	1-249-405-11	CARBON	100	5% 1/4W
					R718	1-202-838-00	SOLID	100K	20% 1/2W
					R719	1-202-883-11	SOLID	680K	20% 1/2W
					R720	1-202-838-00	SOLID	100K	20% 1/2W
		*****			R722	1-202-846-00	SOLID	470K	20% 1/2W
					R723	1-202-837-00	SOLID	82K	20% 1/2W
					R724	1-202-549-00	SOLID	100	20% 1/2W
					R725	1-216-391-11	METAL OXIDE	1.5	5% 3W
					R726	1-202-842-11	SOLID	220K	20% 1/2W
		*****			R727	1-202-824-00	SOLID	3.3K	20% 1/2W
					R728	1-215-924-00	METAL OXIDE	15K	5% 3W
					R729	1-202-824-00	SOLID	3.3K	20% 1/2W
					R730	1-215-924-00	METAL OXIDE	15K	5% 3W
					R731	1-202-824-00	SOLID	3.3K	20% 1/2W
		*****			R732	1-215-924-00	METAL OXIDE	15K	5% 3W
					R733	1-202-838-00	SOLID	100K	20% 1/2W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>			
RV702	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV703	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV704	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV705	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV706	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV708△	1-230-619-11	RES, ADJ, METAL GLAZE 110M	

MISCELLANEOUS

- △.1-426-368-11 COIL, DEMAGNETIZATION
- △.1-451-280-11 DEFLECTION YOKE (Y2IPXA2)
- 1-452-032-00 MAGNET, DISK; 10MM ϕ
- 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ
- 1-452-277-00 MAGNET, BMC

- 1-544-763-11 SPEAKER (12X5CM)
- △.1-574-062-12 CORD, POWER (WITH CONNECTOR) (KV-2185MTJ)
- △.1-574-062-22 CORD, POWER (WITH CONNECTOR) (KV-2185MT)

V901 △.8-738-759-05 PICTURE TUBE (A51JUH11X)

ACCESSORIES AND PACKING MATERIALS

- 1-417-151-21 MATCHING TRANSFORMER, ANTENNA
- 1-501-372-81 ANTENNA, TELESCOPIC (KV-2185MTJ)
- 1-569-008-11 ADAPTER, CONVERSION 2P
- 3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)
- 4-392-003-01 BAND, HOLD

- 4-392-004-01 CLIP
- 3-755-585-11 MANUAL, INSTRUCTION
(ENGLISH/FRENCH/CHINESE/ARABIC/PERSIAN)
- *4-035-560-01 CUSHION (UPPER) (ASSY) (KV-2185MTJ)
- *4-035-561-01 CUSHION (LOWER) (ASSY) (KV-2185MTJ)
- *4-036-040-01 INDIVIDUAL CARTON (KV-2185MTJ)
- *4-384-027-01 BAG, PROTECTION (KV-2185MTJ)
- *4-036-285-01 CUSHION (UPPER) (ASSY) (KV-2185MT)
- *4-036-286-01 CUSHION (LOWER) (ASSY) (KV-2185MT)
- *4-036-291-01 INDIVIDUAL CARTON (KV-2185MT)
- *4-395-957-01 BAG, PROTECTION (KV-2185MT)

REMOTE COMMANDER

- 1-693-143-11 REMOTE COMMANDER (RM-827S)
- 9-902-546-01 COVER, BATTERY (FOR RM-827S)